KOCH Kabel
Smart cabling by Koch Kabel AG

# TEAFLEX®

industrial cable protection

Simbolo ATEX
*ATEX* symbol

Categoria apparecchiatura: può essere utilizzato in zona 1 e 2
*Equipment category: it can be used in zone 1 and 2*

Gruppo di gas: i più esplosivi
*Gas group: the most explosive*

II 2G EX e IIC Gb

Gruppo II: industrie di superficie
*Group II: surface industries*

Metodo di protezione: sicurezza aumentata
*Method of protection: increased safety*

Livello di protezione contro le esplosioni (EPL): il maggiore per la sua categoria
*Equipment protection level (EPL): the highest in its category*

Classificazione del grado di protezione dai GAS esplosivi
*Degree of protection classification from explosive GASES*

Simbolo ATEX
*ATEX* symbol

Categoria apparecchiatura: può essere utilizzato in zona 21 e 22
*Equipment category: it can be used in zone 21 and 22*

Gruppo di polveri: le più esplosive
*Dust group: the most explosive*

II 2D EX tb IIIC Db

Gruppo II: industrie di superficie
*Group II: surface industries*

Metodo di protezione: attraverso chiusura
*Method of protection: through closing*

Livello di protezione contro le esplosioni (EPL): il maggiore per la sua categoria
*Equipment protection level (EPL): the highest in its category*

Classificazione del grado di protezione dalle POLVERI esplosive
*Degree of protection classification from explosive DUSTS*

# La marcatura EX secondo la Direttiva ATEX (94/9/EC)
## *EX marking according to ATEX Directive (94/9/EC)*

ESEMPIO MARCATURA
*MARKING EXAMPLE*

Pressacavi: serie PRAT
*Cable glands: PRAT range*

TÜV IT 13 ATEX 033X
TÜV IT 13 ATEX 034X

Raccordi: serie CM, AR, FI
*Fittings: CM, AR, FI range*

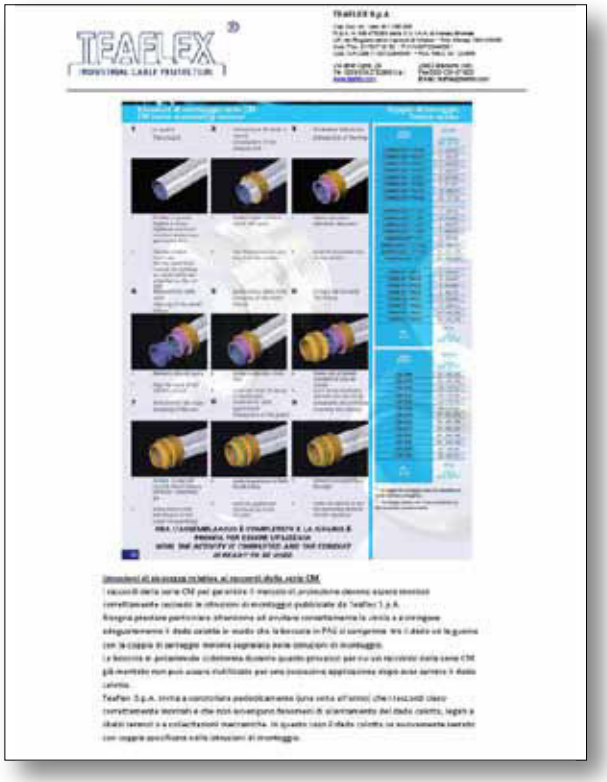
IP67

Indice di protezione secondo IEC 60529
*IP rating according to IEC 60529*

Codice del certificato di tipo CE emesso dal TUV
*EC-type examination certificate issued from TUV*

Nella singola confezione è presente un foglio con le istruzioni di montaggio e sicurezza, oltre all'attestato di conformità CE.

*Each single package contains assembly and safety instructions, in addition to CE declaration of conformity.*



LEGENDA APPLICAZIONI
*APPLICATIONS LEGEND*

ATEX
*ATEX*

INSTALLAZIONI INDUSTRIALI
*INDUSTRIAL INSTALLATIONS*

INSTALLAZIONI CIVILI
*CIVIL INSTALLATIONS*

FERROVIARIO
*RAILWAYS*

SEGNALAMENTO
*SIGNALLING*

TUNNEL
*TUNNEL*

# Certificazioni/*Approvals*

## Le nostre Certificazioni
## *Our Approvals*

CERTIFICATO

Nr 50 100 7752 - Rev. 04

TEAFLEX S.p.A.

VIA DELLE VIGNE 28
I-20863 BIASSONO (MB)

UNI EN ISO 9001:2008

Progettazione, fabbricazione e commercializzazione di raccordi, pressa cavi, guaine e tubi in acciaio zincato e inox per la protezione meccanica di cavi elettrici e di segnale per il settore industriale

*Design, manufacture and trade of fittings, cable glands and conduits for mechanical protection of electrical wires and data-cable in the industrial field*

ACCREDIA

IRIS Certification

CERTIFICATE

awarded to

TEAFLEX SPA

VIA DELLE VIGNE 28
20046 BIASSONO
Italy

TÜV SÜD Management Service GmbH

confirms, as an IRIS approved certification body, that the Management System of the above organization has been assessed and found to be in accordance with the

**International Railway Industry Standard (IRIS)**
**Revision 02, May 2009**

for the activity of Design and development & Manufacturing

for the scopes of certification 20 (Single railway components)

Design and manufacture of conduits, cable glands and fittings for protection of electrical cables

Date of the audit: 08/06/2012
Date of issue of the certificate: 16/07/2012 Certificate valid until: 15/07/2015

Current date: 30/08/2012
Certificate-Register-No.: 1211336670

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NOTIFICATION

PRODUCT QUALITY ASSURANCE NOTIFICATION

Equipment or Protective System or Component intended for use in potentially explosive atmospheres
Directive 94/9/EC

TÜV IT 13 ATEX 065 Q

CABLE GLANDS
THREAD FITTINGS

Applicant: Teaflex S.p.a. Via delle vigne, 28 I-20863 Biassono (MB)- ITALY

Manufacturer: Teaflex S.p.a. Via delle vigne, 28 I-20863 Biassono (MB)- ITALY

09
48

DNV

RINA

CSI Certificazione e Testing

BASF
The Chemical Company

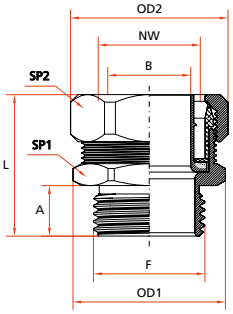
LAPI SPA
Certificazione, Ispezione e Prova

SAFRAN
AEROSPACE · DEFENCE · SECURITY

Exova

# EXCMMF

## Raccordi in ottone filetto maschio serie CM continuità metallica
## *Male thread brass fittings with metallic continuity*




QR CODE: istruzioni di montaggio
*QR CODE: assembly instructions*

① A richiesta sono disponibili Raccordi con filettatura GAS Conica ISO $7/1_R$
① *ISO $7/1_R$ Tapered Thread available on demand*

**Per guaine tipo: L-P-DAR-SVT-T-TP-LPU-DAPU-SVPEVAT**
***For conduits type: L-P-DAR-SVT-T-TP-LPU-DAPU-SVPEVAT***

I raccordi sono completi della guarnizione GAM
*The fittings are equipped with GAM gasket*

### EXCMMF - Filetto maschio GAS e PG - Raccordo in ottone con continuità metallica

| Codice GAS | F Filetto GAS | A mm | L mm | Codice PG | F Filetto PG | A mm | L mm | Certificazioni | Codice Guaina NW | ∅ guaina mm int. est | B Passaggio utile mm | OD1 mm | OD2 mm | SP1 mm | SP2 mm | Confezione standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXCMMFG009 | 1/4" | 10 | 31 | EXCMMFP09PG09 | 9 | 10 | 31 | | 9 | 8,5 - 13,0 | 7 | 23 | 24,5 | 20 | 22 | 20 |
| EXCMMFG009A | 3/8" | 10 | 31 | EXCMMFP09PG11 | 11 | 10 | 31 | | 9 | 8,5 - 13,0 | 7 | 23 | 24,5 | 20 | 22 | 20 |
| EXCMMFG009B | 1/2" | 10 | 31,5 | EXCMMFP09PG13 | 13,5 | 10 | 31,5 | | 9 | 8,5 - 13,0 | 7 | 25 | 24,5 | 22 | 22 | 20 |
| EXCMMFG010 | 1/4" | 10 | 32 | EXCMMFP10PG07 | 7 | 10 | 32 | | 10 | 10,0 - 15,0 | 8,5 | 25 | 26 | 22 | 24 | 20 |
| EXCMMFG010A | 3/8" | 10 | 32 | EXCMMFP10PG09 | 9 | 10 | 32 | | 10 | 10,0 - 15,0 | 8,5 | 25 | 26 | 22 | 24 | 20 |
| EXCMMFG010B | 1/2" | 10 | 32 | EXCMMFP10PG11 | 11 | 10 | 32 | | 10 | 10,0 - 15,0 | 8,5 | 25 | 26 | 22 | 24 | 20 |
| | | | | EXCMMFP10PG13 | 13,5 | 10 | 32 | | 10 | 10,0 - 15,0 | 8,5 | 25 | 26 | 22 | 24 | 20 |
| EXCMMFG012 | 3/8" | 10 | 33 | EXCMMFP12PG11 | 11 | 10 | 33 | | 12 | 12,0 - 17,0 | 10,5 | 27,5 | 29 | 24 | 26 | 20 |
| EXCMMFG012A | 1/2" | 10 | 33 | EXCMMFP12PG13 | 13,5 | 10 | 33 | | 12 | 12,0 - 17,0 | 10,5 | 27,5 | 29 | 24 | 26 | 20 |
| | | | | EXCMMFP12PG16 | 16 | 10 | 33 | | 12 | 12,0 - 17,0 | 10,5 | 27,5 | 29 | 24 | 26 | 20 |
| EXCMMFG013 | 3/8" | 10 | 33 | EXCMMFP13PG11 | 11 | 10 | 33 | | 13 | 13,0 - 19,0 | 11,5 | 30 | 30,5 | 26 | 28 | 20 |
| EXCMMFG013A | 1/2" | 10 | 33,5 | EXCMMFP13PG13 | 13,5 | 10 | 33,5 | | 13 | 13,0 - 19,0 | 11,5 | 30 | 30,5 | 26 | 28 | 20 |
| | | | | EXCMMFP13PG16 | 16 | 10 | 33,5 | | 13 | 13,0 - 19,0 | 11,5 | 30 | 30,5 | 26 | 28 | 20 |
| ① EXCMMFG015 | 1/2" | 11 | 34,5 | EXCMMFP15PG13 | 13,5 | 10 | 33,5 | | 15 | 15,5 - 21,0 | 13,8 | 32 | 33 | 28 | 30 | 20 |
| EXCMMFG015A | 3/4" | 11 | 33,5 | EXCMMFP15PG16 | 16 | 10 | 33,5 | | 15 | 15,5 - 21,0 | 13,8 | 32 | 33 | 28 | 30 | 20 |
| ① EXCMMFG018 | 1/2" | 11 | 34 | EXCMMFP18PG16 | 16 | 11 | 34 | | 18 | 18,0 - 25,0 | 16,5 | 37 | 37 | 32 | 34 | 10 |
| EXCMMFG018A | 3/4" | 11 | 34 | EXCMMFP18PG21 | 21 | 11 | 34 | | 18 | 18,0 - 25,0 | 16,5 | 37 | 37 | 32 | 34 | 10 |
| ① EXCMMFG020 | 3/4" | 13 | 38 | EXCMMFP20PG21 | 21 | 12 | 36,5 | | 20 | 20,5 - 27,0 | 18,5 | 39 | 42,5 | 35 | 38 | 10 |
| EXCMMFG025 | 1" | 15 | 42 | EXCMMFP25PG29 | 29 | 12 | 39 | | 25 | 25,0 - 32,0 | 23 | 45 | 46,5 | 40 | 42 | 10 |
| ① EXCMMFG027 | 1" | 15 | 42 | EXCMMFP27PG29 | 29 | 12 | 40 | | 27 | 26,5 - 34,0 | 25 | 45 | 49,5 | 42 | 45 | 10 |
| ① EXCMMFG033 | 1"1/4 | 15 | 47 | EXCMMFP33PG36 | 36 | 12 | 44 | | 33 | 33,0 - 41,0 | 31 | 55 | 58 | 50 | 53 | 5 |
| ① EXCMMFG035 | 1"1/4 | 15 | 46 | EXCMMFP35PG36 | 36 | 12 | 42,5 | | 35 | 35,0 - 43,0 | 33 | 55 | 58 | 50 | 53 | 5 |
| ① EXCMMFG040 | 1"1/2 | 18 | 50 | EXCMMFP40PG36 | 36 | 17 | 49,5 | | 40 | 40,0 - 48,0 | 37,5 | 64 | 66,5 | 58 | 61 | 5 |
| | | | | EXCMMFP40PG42 | 42 | 13 | 48 | | 40 | 40,0 - 48,0 | 37,5 | 64 | 66,5 | 58 | 61 | 5 |
| ① EXCMMFG050 | 2" | 18 | 59 | EXCMMFP50PG48 | 48 | 18 | 59 | | 50 | 50,5 - 58,5 | 48 | 76 | 80,5 | 70 | 74 | 2 |
| ① EXCMMFG065 | 2"1/2 | 24 | 85 | | | | | | 65 | 65,0 - 74,0 | 61 | 99 | 99 | 95 | 95 | 1 |
| ① EXCMMFG075 | 3" | 24 | 93 | | | | | | 75 | 75,0 - 84,0 | 71 | 110 | 110 | 104 | 104 | 1 |
| ① EXCMMFG100 | 4" | 30 | 98 | | | | | | 100 | 100,0 - 109,0 | 95 | 136,5 | 136,5 | 129 | 129 | 1 |
| *REF. Part N. GAS* | *F GAS Thread* | *A mm* | *L mm* | *REF. Part N. PG* | *F PG Thread* | *A mm* | *L mm* | *Approvals* | *Conduit code NW* | *int. ext. ∅ conduit mm* | *B useful passage mm* | *OD1 mm* | *OD2 mm* | *SP1 mm* | *SP2 mm* | *Packing unit* |

***EXCMMF - Male GAS and PG thread - Brass fittings with metallic continuity***

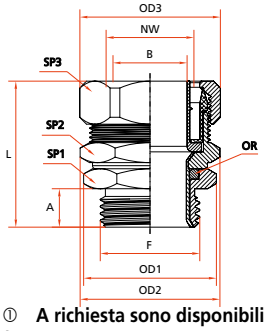
### EXCMMF - Filetto maschio ISO Metrico - Raccordo in ottone con continuità metallica

| Codice ISO Metrico | Certificazioni | F Filetto ISO Metrico | Codice Guaina NW | ∅ guaina mm int. est. | A mm | B Passaggio utile mm | L mm | OD1 mm | OD2 mm | SP1 mm | SP2 mm | Confezione standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXCMMF09M12 | | M12x1,5 | 9 | 8,5 - 13,0 | 10 | 7 | 31 | 23 | 24,5 | 20 | 22 | 20 |
| EXCMMF09M16 | | M16x1,5 | 9 | 8,5 - 13,0 | 10 | 7 | 31,5 | 23 | 24,5 | 20 | 22 | 20 |
| EXCMMF09M20 | | M20x1,5 | 9 | 8,5 - 13,0 | 10 | 7 | 31,5 | 25 | 24,5 | 22 | 22 | 20 |
| EXCMMF10M12 | | M12x1,5 | 10 | 10,0 - 15,0 | 10 | 8,5 | 33 | 25 | 26 | 22 | 24 | 20 |
| EXCMMF10M16 | | M16x1,5 | 10 | 10,0 - 15,0 | 10 | 8,5 | 33 | 25 | 26 | 22 | 24 | 20 |
| EXCMMF10M20 | | M20x1,5 | 10 | 10,0 - 15,0 | 10 | 8,5 | 32,5 | 25 | 26 | 22 | 24 | 20 |
| EXCMMF12M16 | | M16x1,5 | 12 | 12,0 - 17,0 | 10 | 10,5 | 33 | 27,5 | 29 | 24 | 26 | 20 |
| EXCMMF12M20 | | M20x1,5 | 12 | 12,0 - 17,0 | 10 | 10,5 | 33,5 | 27,5 | 29 | 24 | 26 | 20 |
| EXCMMF13M16 | | M16x1,5 | 13 | 13,0 - 19,0 | 10 | 11,5 | 33,5 | 30 | 30,5 | 26 | 28 | 20 |
| EXCMMF13M20 | | M20x1,5 | 13 | 13,0 - 19,0 | 10 | 11,5 | 34 | 30 | 30,5 | 26 | 28 | 20 |
| EXCMMF15M20 | | M20x1,5 | 15 | 15,5 - 21,0 | 10 | 13,8 | 34,5 | 32 | 33 | 28 | 30 | 20 |
| EXCMMF15M25 | | M25x1,5 | 15 | 15,5 - 21,0 | 11 | 13,8 | 35 | 32 | 33 | 28 | 30 | 20 |
| EXCMMF18M20 | | M20x1,5 | 18 | 18,0 - 25,0 | 11 | 16,5 | 34,5 | 37 | 37 | 32 | 34 | 10 |
| EXCMMF18M25 | | M25x1,5 | 18 | 18,0 - 25,0 | 11 | 16,5 | 34,5 | 37 | 37 | 32 | 34 | 10 |
| EXCMMF20M25 | | M25x1,5 | 20 | 20,5 - 27,0 | 12 | 18,5 | 37 | 39 | 42,5 | 35 | 38 | 10 |
| EXCMMF25M32 | | M32x1,5 | 25 | 25,0 - 32,0 | 12 | 23 | 39,5 | 45 | 46,5 | 40 | 42 | 10 |
| EXCMMF27M32 | | M32x1,5 | 27 | 26,5 - 34,0 | 12 | 25 | 39,5 | 45 | 49,5 | 42 | 45 | 10 |
| EXCMMF33M40 | | M40x1,5 | 33 | 33,0 - 41,0 | 12 | 31 | 44 | 55 | 58 | 50 | 53 | 5 |
| EXCMMF35M40 | | M40x1,5 | 35 | 35,0 - 43,0 | 12 | 33 | 43 | 55 | 58 | 50 | 53 | 5 |
| EXCMMF40M50 | | M50x1,5 | 40 | 40,0 - 48,0 | 13 | 37,5 | 47,5 | 64 | 66,5 | 58 | 61 | 5 |
| EXCMMF50M63 | | M63x1,5 | 50 | 50,5 - 58,5 | 16 | 48 | 55 | 76 | 80,5 | 70 | 74 | 2 |
| *REF. Part N. ISO Metric* | *Approvals* | *F ISO Metric Thread* | *Conduit code NW* | *int. ext. ∅ conduit mm* | *A mm* | *B useful passage mm* | *L mm* | *OD1 mm* | *OD2 mm* | *SP1 mm* | *SP2 mm* | *Packing unit* |

***EXCMMF - Male ISO Metric thread - Brass fittings with metallic continuity***

# EXCMMG

## Raccordi in ottone filetto maschio girevole serie CM continuità metallica
## *Revolving male brass fittings with metallic continuity*




QR CODE: istruzioni di montaggio
*QR CODE: assembly instructions*

① A richiesta sono disponibili Raccordi con filettatura GAS Conica ISO $7/1_R$

① *ISO $7/1_R$ Tapered Thread available on demand*

**Per guaine tipo: L-P-DAR-SVT-T-TP-LPU-DAPU-SVPEVAT**
***For conduits type: L-P-DAR-SVT-T-TP-LPU-DAPU-SVPEVAT***

I raccordi sono completi della guarnizione GAM
*The fittings are equipped with GAM gasket*

### EXCMMG - Filetto maschio girevole GAS e PG - Raccordo in ottone con continuità metallica

| Codice GAS | F Filetto GAS | A mm | L mm | OD1 mm | OD2 mm | OD3 mm | SP1 mm | SP2 mm | SP3 mm | Codice PG | F Filetto PG | A mm | L mm | OD1 mm | OD2 mm | OD3 mm | SP1 mm | SP2 mm | SP3 mm | Certificazioni | Codice Guaina NW | ∅ guaina mm int. | ∅ guaina mm est. | B Passaggio utile mm | Confezione standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXCMMGG09 | 1/4" | 9 | 40 | 17 | 23 | 24,5 | 15 | 20 | 22 | EXCMMGP09PG07 | 7 | 9 | 40 | 17 | 23 | 24,5 | 15 | 20 | 22 | | 9 | 8,5 | 13,0 | 7 | 20 |
| EXCMMGG09A | 3/8" | 9 | 40 | 21,5 | 23 | 24,5 | 19 | 20 | 22 | EXCMMGP09PG09 | 9 | 7 | 37,5 | 19,5 | 23 | 24,5 | 17 | 20 | 22 | | 9 | 8,5 | 13,0 | 7 | 20 |
| EXCMMGG09B | 1/2" | 9 | 40 | 27,5 | 23 | 24,5 | 24 | 20 | 22 | EXCMMGP09PG11 | 11 | 7 | 36 | 23 | 23 | 24,5 | 20 | 20 | 22 | | 9 | 8,5 | 13,0 | 7 | 20 |
| | | | | | | | | | | EXCMMGP09PG13 | 13,5 | 7 | 36 | 25 | 25 | 24,5 | 22 | 22 | 22 | | 9 | 8,5 | 13,0 | 7 | 20 |
| EXCMMGG10 | 1/4" | 9 | 40 | 17 | 25 | 26 | 15 | 22 | 24 | EXCMMGP10PG07 | 7 | 9 | 39,5 | 17 | 25 | 26 | 15 | 22 | 24 | | 10 | 10,0 | 15,0 | 7 | 20 |
| | | | | | | | | | | EXCMMGP10PG09 | 9 | 7 | 37,5 | 19,5 | 25 | 26 | 17 | 22 | 24 | | 10 | 10,0 | 15,0 | 7 | 20 |
| EXCMMGG10A | 3/8" | 9 | 40 | 21,5 | 25 | 26 | 19 | 22 | 24 | EXCMMGP10PG11 | 11 | 7 | 37,5 | 23 | 25 | 26 | 20 | 22 | 24 | | 10 | 10,0 | 15,0 | 8,5 | 20 |
| EXCMMGG10B | 1/2" | 9 | 40 | 27,5 | 25 | 26 | 24 | 22 | 24 | EXCMMGP10PG13 | 13,5 | 7 | 37 | 25 | 25 | 26 | 22 | 22 | 24 | | 10 | 10,0 | 15,0 | 8,5 | 20 |
| | | | | | | | | | | EXCMMGP10PG16 | 16 | 7 | 37 | 27,5 | 25 | 26 | 24 | 22 | 24 | | 10 | 10,0 | 15,0 | 8,5 | 20 |
| EXCMMGG12 | 3/8" | 9 | 40 | 21,5 | 27,5 | 29 | 19 | 24 | 26 | EXCMMGP12PG11 | 11 | 7 | 37,5 | 23 | 27,5 | 29 | 20 | 24 | 26 | | 12 | 12,0 | 17,0 | 10 | 20 |
| EXCMMGG12A | 1/2" | 9 | 40 | 27,5 | 27,5 | 29 | 24 | 24 | 26 | EXCMMGP12PG13 | 13,5 | 7 | 37 | 25 | 27,5 | 29 | 22 | 24 | 26 | | 12 | 12,0 | 17,0 | 10 | 20 |
| | | | | | | | | | | EXCMMGP12PG16 | 16 | 7 | 37,5 | 27,5 | 27,5 | 29 | 24 | 24 | 26 | | 12 | 12,0 | 17,0 | 10 | 20 |
| EXCMMGG13 | 3/8" | 9 | 40,5 | 21,5 | 30 | 30,5 | 19 | 26 | 28 | EXCMMGP13PG11 | 11 | 7 | 38 | 23 | 30 | 30,5 | 20 | 26 | 28 | | 13 | 13,0 | 19,0 | 10 | 20 |
| EXCMMGG13A | 1/2" | 9 | 40,5 | 27,5 | 30 | 30,5 | 24 | 26 | 28 | EXCMMGP13PG13 | 13,5 | 7 | 37,5 | 25 | 30 | 30,5 | 22 | 26 | 28 | | 13 | 13,0 | 19,0 | 10 | 20 |
| | | | | | | | | | | EXCMMGP13PG16 | 16 | 7 | 37,5 | 27,5 | 30 | 30,5 | 24 | 26 | 28 | | 13 | 13,0 | 19,0 | 10 | 20 |
| ① EXCMMGG15 | 1/2" | 10 | 42 | 27,5 | 32 | 33 | 24 | 28 | 30 | EXCMMGP15PG13 | 13,5 | 10 | 40 | 27,5 | 32 | 33 | 24 | 28 | 30 | | 15 | 15,5 | 21,0 | 14 | 20 |
| EXCMMGG15A | 3/4" | 12,5 | 44 | 34,5 | 32 | 33 | 30 | 28 | 30 | EXCMMGP15PG16 | 16 | 10 | 40 | 27,5 | 32 | 33 | 24 | 28 | 30 | | 15 | 15,5 | 21,0 | 14 | 20 |
| | | | | | | | | | | EXCMMGP15PG21 | 21 | 10 | 40,5 | 34,5 | 32 | 33 | 30 | 28 | 30 | | 15 | 15,5 | 21,0 | 14 | 20 |
| EXCMMGG18 | 1/2" | 10 | 43 | 27,5 | 37 | 37 | 24 | 32 | 34 | EXCMMGP18PG13 | 13,5 | 10 | 40 | 27,5 | 37 | 37 | 24 | 32 | 34 | | 18 | 18,0 | 25,0 | 14 | 10 |
| | | | | | | | | | | EXCMMGP18PG16 | 16 | 10 | 40 | 27,5 | 37 | 37 | 24 | 32 | 34 | | 18 | 18,0 | 25,0 | 14 | 10 |
| ① EXCMMGG18A | 3/4" | 12,5 | 45 | 34,5 | 37 | 37 | 30 | 32 | 34 | EXCMMGP18PG21 | 21 | 10 | 41 | 34,5 | 37 | 37 | 30 | 32 | 34 | | 18 | 18,0 | 25,0 | 16,5 | 10 |
| ① EXCMMGG20 | 3/4" | 12,5 | 47 | 34,5 | 39 | 42,5 | 30 | 35 | 38 | EXCMMGP20PG21 | 21 | 10 | 42,5 | 34,5 | 39 | 42,5 | 30 | 35 | 38 | | 20 | 20,5 | 27,0 | 18,5 | 10 |
| EXCMMGG20A | 1" | 12,5 | 47 | 43,5 | 39 | 42,5 | 38 | 35 | 38 | | | | | | | | | | | | 20 | 20,5 | 27,0 | 18,5 | 10 |
| EXCMMGG25 | 1" | 12,5 | 49 | 43,5 | 45 | 46,5 | 38 | 40 | 42 | EXCMMGP25PG29 | 29 | 12,5 | 48 | 43,5 | 45 | 46,5 | 38 | 40 | 42 | | 25 | 25,0 | 32,0 | 23 | 10 |
| ① EXCMMGG27 | 1" | 12,5 | 50 | 43,5 | 45 | 49,5 | 38 | 42 | 45 | EXCMMGP27PG29 | 29 | 12,5 | 50 | 43,5 | 45 | 49,5 | 38 | 42 | 45 | | 27 | 26,5 | 34,0 | 24 | 10 |
| ① EXCMMGG33 | 1"1/4 | 18,5 | 60 | 49 | 55 | 58 | 45 | 50 | 53 | EXCMMGP33PG36 | 36 | 18,5 | 60 | 49 | 55 | 58 | 45 | 50 | 53 | | 33 | 33,0 | 41,0 | 31 | 5 |
| ① EXCMMGG35 | 1"1/4 | 18,5 | 58 | 49 | 55 | 58 | 45 | 50 | 53 | EXCMMGP35PG36 | 36 | 18,5 | 58 | 49 | 55 | 58 | 45 | 50 | 53 | | 35 | 35,0 | 43,0 | 32,5 | 5 |
| ① EXCMMGG40 | 1"1/2 | 20 | 64 | 56 | 64 | 66,5 | 52 | 58 | 61 | EXCMMGP40PG36 | 36 | 20 | 64 | 56 | 64 | 66,5 | 52 | 58 | 61 | | 40 | 40,0 | 48,0 | 37,5 | 5 |
| | | | | | | | | | | EXCMMGP40PG42 | 42 | 20 | 62,5 | 62 | 64 | 66,5 | 58 | 58 | 61 | | 40 | 40,0 | 48,0 | 37,5 | 5 |
| ① EXCMMGG50 | 2" | 24,5 | 76 | 72 | 76 | 80,5 | 65 | 70 | 74 | EXCMMGP50PG48 | 48 | 24,5 | 76 | 72 | 76 | 80,5 | 65 | 70 | 74 | | 50 | 50,5 | 58,5 | 48 | 2 |
| ① EXCMMGG65 | 2"1/2 | 24 | 104,5 | 90 | 99 | 99 | 82 | 95 | 95 | | | | | | | | | | | | 65 | 65,0 | 74,0 | 60 | 1 |
| ① EXCMMGG75 | 3" | 27 | 116 | 106 | 110 | 110 | 95 | 104 | 104 | | | | | | | | | | | | 75 | 75,0 | 84,0 | 70 | 1 |
| ① EXCMMGG100 | 4" | 28 | 123 | 132 | 136,5 | 136,5 | 128 | 129 | 129 | | | | | | | | | | | | 100 | 100,0 | 109,0 | 95 | 1 |
| *REF. Part N. GAS* | *F GAS Thread* | *A mm* | *L mm* | *OD1 mm* | *OD2 mm* | *OD3 mm* | *SP1 mm* | *SP2 mm* | *SP3 mm* | *REF. Part N. PG* | *F PG Thread* | *A mm* | *L mm* | *OD1 mm* | *OD2 mm* | *OD3 mm* | *SP1 mm* | *SP2 mm* | *SP3 mm* | *Approvals* | *Conduit code NW* | *int.* | *ext. ∅ conduit mm* | *B useful passage mm* | *Packing unit* |

***EXCMMG - Revolving male GAS and PG thread - Brass fittings with metallic continuity***

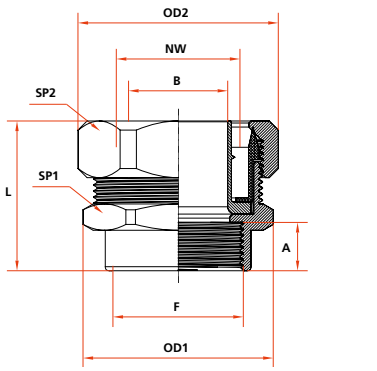
### EXCMMG - Filetto maschio girevole ISO Metrico - Raccordo in ottone con continuità metallica

| Codice ISO Metrico | Certificazioni | F Filetto ISO Metrico | Codice Guaina NW | ∅ guaina mm int. | ∅ guaina mm est. | A mm | B Passaggio utile mm | L mm | OD1 mm | OD2 mm | OD3 mm | SP1 mm | SP2 mm | SP3 mm | Confezione standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXCMMG09M12 | | M12x1,5 | 9 | 8,5 | 13,0 | 9 | 7 | 40 | 17 | 23 | 24,5 | 15 | 20 | 22 | 20 |
| EXCMMG09M16 | | M16x1,5 | 9 | 8,5 | 13,0 | 9 | 7 | 40 | 22 | 23 | 24,5 | 19 | 20 | 22 | 20 |
| EXCMMG09M20 | | M20x1,5 | 9 | 8,5 | 13,0 | 9 | 7 | 40 | 25 | 25 | 24,5 | 22 | 22 | 22 | 20 |
| EXCMMG10M12 | | M12x1,5 | 10 | 10,0 | 15,0 | 9 | 7 | 40 | 17 | 25 | 26 | 15 | 22 | 24 | 20 |
| EXCMMG10M16 | | M16x1,5 | 10 | 10,0 | 15,0 | 9 | 8,5 | 40 | 22 | 25 | 26 | 19 | 22 | 24 | 20 |
| EXCMMG10M20 | | M20x1,5 | 10 | 10,0 | 15,0 | 9 | 8,5 | 40 | 27,5 | 25 | 26 | 24 | 22 | 24 | 20 |
| EXCMMG12M16 | | M16x1,5 | 12 | 12,0 | 17,0 | 9 | 10 | 40 | 22 | 27,5 | 29 | 19 | 24 | 26 | 20 |
| EXCMMG12M20 | | M20x1,5 | 12 | 12,0 | 17,0 | 9 | 10 | 40 | 27,5 | 27,5 | 29 | 24 | 24 | 26 | 20 |
| EXCMMG13M16 | | M16x1,5 | 13 | 13,0 | 19,0 | 9 | 10 | 40 | 22 | 30 | 30,5 | 19 | 26 | 28 | 20 |
| EXCMMG13M20 | | M20x1,5 | 13 | 13,0 | 19,0 | 9 | 10 | 40 | 27,5 | 30 | 30,5 | 24 | 26 | 28 | 20 |
| EXCMMG15M20 | | M20x1,5 | 15 | 15,5 | 21,0 | 9 | 14 | 40 | 27,5 | 32 | 33 | 24 | 28 | 30 | 20 |
| EXCMMG15M25 | | M25x1,5 | 15 | 15,5 | 21,0 | 10 | 13,8 | 41 | 34,5 | 32 | 33 | 30 | 28 | 30 | 20 |
| EXCMMG18M20 | | M20x1,5 | 18 | 18,0 | 25,0 | 9 | 14 | 41 | 27,5 | 37 | 37 | 24 | 32 | 34 | 10 |
| EXCMMG18M25 | | M25x1,5 | 18 | 18,0 | 25,0 | 10 | 16,5 | 41 | 34,5 | 37 | 37 | 30 | 32 | 34 | 10 |
| EXCMMG20M25 | | M25x1,5 | 20 | 20,5 | 27,0 | 10 | 18 | 44 | 34,5 | 39 | 42,5 | 30 | 35 | 38 | 10 |
| EXCMMG20M32 | | M32x1,5 | 20 | 20,5 | 27,0 | 13 | 18 | 47 | 43,5 | 40 | 42,5 | 38 | 35 | 38 | 10 |
| EXCMMG25M32 | | M32x1,5 | 25 | 25,0 | 32,0 | 13 | 23 | 48 | 43,5 | 45 | 46,5 | 38 | 40 | 42 | 10 |
| EXCMMG27M32 | | M32x1,5 | 27 | 26,5 | 34,0 | 13 | 24 | 50,5 | 43,5 | 45 | 49,5 | 38 | 42 | 45 | 10 |
| EXCMMG33M40 | | M40x1,5 | 33 | 33,0 | 41,0 | 18 | 31 | 58 | 52 | 55 | 58 | 45 | 50 | 53 | 5 |
| EXCMMG35M40 | | M40x1,5 | 35 | 35,0 | 43,0 | 18 | 33 | 56 | 52 | 55 | 58 | 45 | 50 | 53 | 5 |
| EXCMMG40M50 | | M50x1,5 | 40 | 40,0 | 48,0 | 20 | 37,5 | 63 | 56 | 64 | 66,5 | 52 | 58 | 61 | 5 |
| EXCMMG50M63 | | M63x1,5 | 50 | 50,5 | 58,5 | 24 | 48 | 74 | 69 | 76 | 80,5 | 64 | 70 | 74 | 2 |
| *REF. Part N. ISO Metric* | *Approvals* | *F ISO Metric Thread* | *Conduit code NW* | *int.* | *ext. ∅ conduit mm* | *A mm* | *B useful passage* | *L mm* | *OD1 mm* | *OD2 mm* | *OD3 mm* | *SP1 mm* | *SP2 mm* | *SP3 mm* | *Packing unit* |

***EXCMMG - Revolving male ISO METRIC thread - Brass fittings with metallic continuity***

# EXCMF

## Raccordi in ottone filetto femmina serie CM continuità metallica
## *Female thread brass fittings with metallic continuity*




QR CODE: istruzioni di montaggio
*QR CODE: assembly instructions*

**Per guaine tipo: L-P-DAR-SVT-T-TP-LPU-DAPU-SVPEVAT**
***For conduits type: L-P-DAR-SVT-T-TP-LPU-DAPU-SVPEVAT***

I raccordi sono completi della guarnizione GAM
*The fittings are equipped with GAM gasket*

## Applicazione
## *Application*

**EXCMF - Filetto femmina GAS - Raccordo in ottone con continuità metallica**

| Codice GAS | Certificazioni | F Filetto GAS | Codice Guaina NW | ∅ guaina mm int. est. | A mm | B Passaggio utile | L mm | OD1 mm | OD2 mm | SP1 mm | SP2 mm | Confezione standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EXCMF009** | | 1/4" | 9 | 8,5 - 13,0 | 9 | 7 | 29,5 | 23 | 24,5 | 20 | 22 | 20 |
| **EXCMF010** | | 1/4" | 10 | 10,0 - 15,0 | 9 | 8,5 | 28,5 | 25 | 26 | 22 | 24 | 20 |
| **EXCMF010A** | | 3/8" | 10 | 10,0 - 15,0 | 9 | 8,5 | 28,5 | 25 | 26 | 22 | 24 | 20 |
| **EXCMF010B** | | 1/2" | 10 | 10,0 - 15,0 | 10 | 8,5 | 31,5 | 25 | 26 | 22 | 24 | 20 |
| **EXCMF012** | | 3/8" | 12 | 12,0 - 17,0 | 9 | 10,5 | 30 | 27,5 | 29 | 24 | 26 | 20 |
| **EXCMF012A** | | 1/2" | 12 | 12,0 - 17,0 | 9 | 10,5 | 32 | 27,5 | 29 | 24 | 26 | 20 |
| **EXCMF013** | | 3/8" | 13 | 13,0 - 19,0 | 9,5 | 11,5 | 28,5 | 30 | 30,5 | 26 | 28 | 20 |
| **EXCMF013A** | | 1/2" | 13 | 13,0 - 19,0 | 9,5 | 11,5 | 30 | 30 | 30,5 | 26 | 28 | 20 |
| **EXCMF015** | | 1/2" | 15 | 15,5 - 21,0 | 9,5 | 13,8 | 30 | 32 | 33 | 28 | 30 | 20 |
| **EXCMF015A** | | 3/4" | 15 | 15,5 - 21,0 | 9,5 | 13,8 | 31 | 32 | 33 | 28 | 30 | 20 |
| **EXCMF018** | | 1/2" | 18 | 18,0 - 25,0 | 10 | 16,5 | 31 | 37 | 37 | 32 | 34 | 10 |
| **EXCMF018A** | | 3/4" | 18 | 18,0 - 25,0 | 10 | 16,5 | 31,5 | 37 | 37 | 32 | 34 | 10 |
| **EXCMF020** | | 3/4" | 20 | 20,5 - 27,0 | 12 | 18,5 | 36 | 39 | 42,5 | 35 | 38 | 10 |
| **EXCMF025** | | 1" | 25 | 25,0 - 32,0 | 1 | 23 | 37 | 45 | 46,5 | 40 | 42 | 10 |
| **EXCMF027** | | 1" | 27 | 26,5 - 34,0 | 14 | 25 | 40 | 45 | 49,5 | 42 | 45 | 10 |
| **EXCMF033** | | 1"1/4 | 33 | 33,0 - 41,0 | 16 | 31 | 45 | 55 | 58 | 50 | 53 | 5 |
| **EXCMF035** | | 1"1/4 | 35 | 35,0 - 43,0 | 16 | 33 | 42,5 | 55 | 58 | 50 | 53 | 5 |
| **EXCMF040** | | 1"1/2 | 40 | 40,0 - 48,0 | 17 | 37,5 | 49 | 64 | 66,5 | 58 | 61 | 5 |
| **EXCMF050** | | 2" | 50 | 50,5 - 58,5 | 21 | 48 | 55 | 76 | 80,5 | 70 | 74 | 2 |
| **EXCMF065** | | 2"1/2 | 65 | 65,0 - 74,0 | 22 | 61 | 85 | 99 | 99 | 95 | 95 | 1 |
| **EXCMF075** | | 3" | 75 | 75,0 - 84,0 | 22 | 71 | 93 | 110 | 110 | 104 | 104 | 1 |
| **EXCMF100** | | 4" | 100 | 100,0 - 109,0 | 28 | 95 | 98 | 136,5 | 136,5 | 129 | 129 | 1 |
| ***REF. Part N. GAS*** | ***Approvals*** | ***F GAS Thread*** | ***Conduit code NW*** | ***int. ext. ∅ conduit mm*** | ***A mm*** | ***B useful passage mm*** | ***L mm*** | ***OD1 mm*** | ***OD2 mm*** | ***SP1 mm*** | ***SP2 mm*** | ***Packing unit*** |

***EXCMF - Female GAS thread - Brass fittings with metallic continuity***

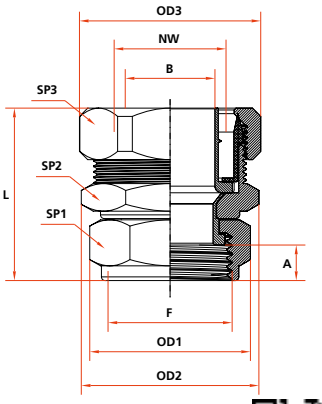
**EXCMF - Filetto femmina ISO Metrico - Raccordo in ottone con continuità metallica**

| Codice ISO Metrico | Certificazioni | F Filetto ISO Metrico | Codice Guaina NW | ∅ guaina mm int. est. | A mm | B Passaggio utile | L mm | OD1 mm | OD2 mm | SP1 mm | SP2 mm | Confezione standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EXCMF09M12** | | M12x1,5 | 9 | 8,5 - 13,0 | 8 | 7 | 28,5 | 23 | 24,5 | 20 | 22 | 20 |
| **EXCMF10M16** | | M16x1,5 | 10 | 10,0 - 15,0 | 9 | 8,5 | 30 | 25 | 26 | 22 | 24 | 20 |
| **EXCMF12M16** | | M16x1,5 | 12 | 12,0 - 17,0 | 9 | 10,5 | 29 | 27,5 | 29 | 24 | 26 | 20 |
| **EXCMF13M20** | | M20x1,5 | 13 | 13,0 - 19,0 | 10 | 11,5 | 31 | 30 | 30,5 | 26 | 28 | 20 |
| **EXCMF15M20** | | M20x1,5 | 15 | 15,5 - 21,0 | 10 | 13,8 | 31,5 | 32 | 33 | 28 | 30 | 20 |
| **EXCMF18M25** | | M25x1,5 | 18 | 18,0 - 25,0 | 10 | 16,5 | 31,5 | 37 | 37 | 32 | 34 | 10 |
| **EXCMF20M25** | | M25x1,5 | 20 | 20,5 - 27,0 | 12 | 18,5 | 37 | 39 | 42,5 | 35 | 38 | 10 |
| **EXCMF25M32** | | M32x1,5 | 25 | 25,0 - 32,0 | 12 | 23 | 37,5 | 45 | 46,5 | 40 | 42 | 10 |
| **EXCMF27M32** | | M32x1,5 | 27 | 26,5 - 34,0 | 12 | 25 | 38 | 45 | 49,5 | 42 | 45 | 10 |
| **EXCMF33M40** | | M40x1,5 | 33 | 33,0 - 41,0 | 12 | 31 | 40,5 | 55 | 58 | 50 | 53 | 5 |
| **EXCMF35M40** | | M40x1,5 | 35 | 35,0 - 43,0 | 12 | 33 | 39,5 | 55 | 58 | 50 | 53 | 5 |
| **EXCMF40M50** | | M50x1,5 | 40 | 40,0 - 48,0 | 13 | 37,5 | 40,5 | 64 | 66,5 | 58 | 61 | 5 |
| **EXCMF50M63** | | M63x1,5 | 50 | 50,5 - 58,5 | 20 | 48 | 56 | 76 | 80,5 | 70 | 74 | 2 |
| ***REF. Part N. ISO Metric*** | ***Approvals*** | ***F ISO Metric Thread*** | ***Conduit code NW*** | ***int. ext. ∅ conduit mm*** | ***A mm*** | ***B useful passage mm*** | ***L mm*** | ***OD1 mm*** | ***OD2 mm*** | ***SP1 mm*** | ***SP2 mm*** | ***Packing unit*** |

***EXCMF - Female ISO Metric thread - Brass fittings with metallic continuity***

# EXCMFG

## Raccordi in ottone filetto femmina girevole serie CM continuità metallica
## *Brass fittings revolving female thread with metallic continuity*




QR CODE: istruzioni di montaggio
*QR CODE: assembly instructions*

**Per guaine tipo: L-P-DAR-SVT-T-TP-LPU-DAPU-SVPEVAT**
***For conduits type: L-P-DAR-SVT-T-TP-LPU-DAPU-SVPEVAT***

I raccordi sono completi della guarnizione GAM
*The fittings are equipped with GAM gasket*

## Applicazione
## *Application*

La compatibilità con una gamma molto vasta di guaine rende i raccordi CM i più comuni ed utilizzati in svariati campi di applicazione. In particolare ne segnaliamo il filetto girevole.

*CM series fittings are compatible with a wide range of conduits and are useful in several applications. Particularly we recommend the revolving thread.*

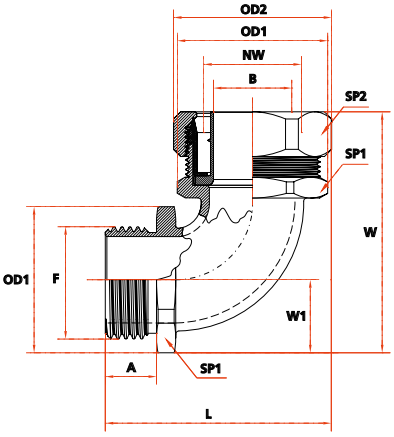
**EXCMFG - Filetto femmina girevole GAS - Raccordo in ottone con continuità metallica**

| Codice | Certificazioni | F Filetto GAS | Codice Guaina NW | ∅ guaina mm int. est. | A mm | B Passaggio utile | L mm | OD1 mm | OD2 mm | OD3 mm | SP1 mm | SP2 mm | SP3 mm | Confezione standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EXCMFG09** | | 1/4" | 9 | 8,5 - 13,0 | 6 | 7 | 34,5 | 17 | 23 | 24,5 | 15 | 20 | 22 | 20 |
| **EXCMFG10** | | 1/4" | 10 | 10,0 - 15,0 | 6 | 8,5 | 35 | 17 | 25 | 26 | 15 | 22 | 24 | 20 |
| **EXCMFG10A** | | 3/8" | 10 | 10,0 - 15,0 | 6,5 | 8,5 | 35 | 21,5 | 25 | 26 | 19 | 22 | 24 | 20 |
| **EXCMFG10B** | | 1/2" | 10 | 10,0 - 15,0 | 7 | 8,5 | 35 | 27,5 | 25 | 26 | 24 | 22 | 24 | 20 |
| **EXCMFG12** | | 3/8" | 12 | 12,0 - 17,0 | 6,5 | 10,5 | 36 | 21,5 | 27,5 | 29 | 19 | 24 | 26 | 20 |
| **EXCMFG13** | | 3/8" | 13 | 13,0 - 19,0 | 6,5 | 11 | 36 | 21,5 | 30 | 30,5 | 19 | 26 | 28 | 20 |
| **EXCMFG13A** | | 1/2" | 13 | 13,0 - 19,0 | 7 | 11 | 36 | 27,5 | 30 | 30,5 | 24 | 26 | 28 | 20 |
| **EXCMFG15** | | 1/2" | 15 | 15,5 - 21,0 | 7,5 | 13,8 | 37 | 27,5 | 32 | 33 | 24 | 28 | 30 | 20 |
| **EXCMFG15A** | | 3/4" | 15 | 15,5 - 21,0 | 7 | 13,8 | 38,5 | 34,5 | 32 | 33 | 30 | 28 | 30 | 20 |
| **EXCMFG18** | | 1/2" | 18 | 18,0 - 25,0 | 7 | 15 | 39 | 27,5 | 37 | 37 | 24 | 32 | 34 | 10 |
| **EXCMFG18A** | | 3/4" | 18 | 18,0 - 25,0 | 8 | 16,5 | 39 | 34,5 | 37 | 37 | 30 | 32 | 34 | 10 |
| **EXCMFG20** | | 3/4" | 20 | 20,5 - 27,0 | 8 | 18,1 | 41 | 34,5 | 39 | 42,5 | 30 | 35 | 38 | 10 |
| **EXCMFG25** | | 1" | 25 | 25,0 - 32,0 | 10 | 23 | 45,5 | 43,5 | 45 | 46,5 | 38 | 40 | 42 | 10 |
| **EXCMFG27** | | 1" | 27 | 26,5 - 34,0 | 10 | 24 | 47 | 43,5 | 45 | 49,5 | 38 | 42 | 45 | 10 |
| **EXCMFG33** | | 1"1/4 | 33 | 33,0 - 41,0 | 11 | 31 | 51 | 49 | 55 | 58 | 45 | 50 | 53 | 5 |
| **EXCMFG35** | | 1"1/4 | 35 | 35,0 - 43,0 | 11 | 32 | 49 | 49 | 55 | 58 | 45 | 50 | 53 | 5 |
| **EXCMFG40** | | 1"1/2 | 40 | 40,0 - 48,0 | 11 | 37,5 | 55 | 57 | 64 | 66,5 | 52 | 58 | 61 | 5 |
| **EXCMFG50** | | 2" | 50 | 50,5 - 58,5 | 12 | 48 | 60,5 | 72 | 76 | 80,5 | 66 | 70 | 74 | 2 |
| **EXCMFG65** | | 2"1/2 | 65 | 65,0 - 74,0 | 19 | 61 | 93 | 91 | 99 | 99 | 82 | 95 | 95 | 1 |
| **EXCMFG75** | | 3" | 75 | 75,0 - 84,0 | 19 | 71 | 99 | 105 | 110 | 110 | 95 | 104 | 104 | 1 |
| **EXCMFG100** | | 4" | 100 | 100,0 - 109,0 | 27 | 95 | 113 | 136 | 136,5 | 136,5 | 129 | 129 | 129 | 1 |
| ***REF. Part N. GAS*** | ***Approvals*** | ***F GAS Thread*** | ***Conduit code NW*** | ***int. ext. ∅ conduit mm*** | ***A mm*** | ***B useful passage*** | ***L mm*** | ***OD1 mm*** | ***OD2 mm*** | ***OD3 mm*** | ***SP1 mm*** | ***SP2 mm*** | ***SP3 mm*** | ***Packing unit*** |

***EXCMFG - Revolving female GAS thread - Brass fittings with metallic continuity***

# EXCMCC

## Curva a 90° in ottone serie CM continuità metallica
## *90° brass elbow with metallic continuity*



I raccordi sono completi della guarnizione GAM
*The fittings are equipped with GAM gasket*

**Per guaine tipo: L-P-DAR-SVT-T-TP-LPU-DAPU-SVPEVAT**
***For conduits type: L-P-DAR-SVT-T-TP-LPU-DAPU-SVPEVAT***

### Applicazione
### *Application*

La compatibilità con una gamma molto vasta di guaine, rende i raccordi CM i più comuni ed utilizzati in svariati campi di applicazione. In particolare questa curva a 90° è utilizzabile quando non è necessaria l'ispezionabilità.

*CM series fittings are compatible with a wide range of conduits and are useful in several applications.*
*Particularly this 90° elbow can be used when inspection is not required.*

**EXCMCC - Curva a 90° filetto GAS, PG e ISO metrico in ottone con continuità metallica**

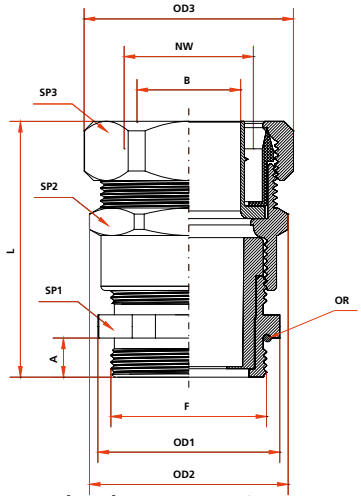
| Codice GAS | F Filetto GAS | Codice PG | F Filetto PG | Codice ISO Metrico | F Filetto ISO metrico | Certificazioni | Codice Guaina NW | Ø guaina mm int. est. | A mm | B mm | L mm | OD1 mm | OD2 mm | SP1 mm | SP2 mm | W mm | W1 mm | Confezione standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EXCMCCG09** | 1/4" | **EXCMCCP09PG09** | 9 | **EXCMCC09M12** | M12x1,5 | | 9 | 8,5 - 13,0 | 11 | 7 | 44 | 24 | 24,5 | 22 | 22 | 52 | 12 | 20 |
| | | | | **EXCMCC09M16** | M16x1,5 | | 9 | 8,5 - 13,0 | 11 | 7 | 44 | 24 | 24,5 | 22 | 22 | 52 | 12 | 20 |
| **EXCMCCG10** | 1/4" | **EXCMCCP10PG09** | 9 | **EXCMCC10M12** | M12x1,5 | | 10 | 10,0 - 15,0 | 11 | 8,5 | 44 | 24 | 26 | 22 | 24 | 52 | 12 | 20 |
| **EXCMCCG10A** | 3/8" | **EXCMCCP10PG11** | 11 | **EXCMCC10M16** | M16x1,5 | | 10 | 10,0 - 15,0 | 11 | 8,5 | 44 | 24 | 26 | 22 | 24 | 52 | 12 | 20 |
| **EXCMCCG12** | 3/8" | **EXCMCCP12PG11** | 11 | **EXCMCC12M16** | M16x1,5 | | 12 | 12,0 - 17,0 | 12 | 10,5 | 45 | 28 | 29 | 26 | 26 | 54 | 14 | 10 |
| **EXCMCCG12A** | 1/2" | **EXCMCCP12PG13** | 13,5 | **EXCMCC12M20** | M20x1,5 | | 12 | 12,0 - 17,0 | 12 | 10,5 | 45 | 28 | 29 | 26 | 26 | 54 | 14 | 10 |
| **EXCMCCG15** | 1/2" | **EXCMCCP15PG13** | 13,5 | **EXCMCC15M20** | M20x1,5 | | 15 | 15,5 - 21,0 | 12 | 13,8 | 50 | 30 | 33 | 28 | 30 | 54 | 15 | 10 |
| | | **EXCMCCP15PG16** | 16 | | | | 15 | 15,5 - 21,0 | 12 | 13,8 | 50 | 30 | 33 | 28 | 30 | 54 | 15 | 10 |
| **EXCMCCG20** | 3/4" | **EXCMCCP20PG21** | 21 | **EXCMCC20M25** | M25x1,5 | | 20 | 20,5 - 27,0 | 13 | 18,5 | 60 | 39 | 42,5 | 35 | 38 | 69 | 19,5 | 5 |
| **EXCMCCG25** | 1" | | | **EXCMCC25M32** | M32x1,5 | | 25 | 25,0 - 32,0 | 16 | 23 | 70 | 47 | 46,5 | 42 | 42 | 79 | 23,5 | 2 |
| **EXCMCCG27** | 1" | | | **EXCMCC27M32** | M32x1,5 | | 27 | 26,5 - 34,0 | 16 | 25 | 72 | 47 | 49,5 | 42 | 45 | 79 | 23,5 | 2 |
| *REF. Part N. GAS* | *F GAS Thread* | *REF. Part N. PG* | *F PG Thread* | *REF. Part N. ISO Metric* | *F ISO Metric Thread* | *Approvals* | *Conduit code NW* | *int. ext. Ø conduit mm* | *A mm* | *B mm* | *L mm* | *OD1 mm* | *OD2 mm* | *SP1 mm* | *SP2 mm* | *W mm* | *W1 mm* | *Packing unit* |

***EXCMCC - 90° Elbow GAS, PG and ISO metric thread brass fittings with metallic continuity***

QR CODE: istruzioni di montaggio
*QR CODE: assembly instructions*

# EXCMPR

## RACCORDI IN OTTONE DOPPIO BLOCCAGGIO SERIE CM CONTINUITÀ




**Per guaine tipo: L-P-DAR-SVT-T-TP-LPU-DAPU-SVPEVAT**
***For conduits type: L-P-DAR-SVT-T-TP-LPU-DAPU-SVPEVAT***

**Il prodotto verrà fornito completo di OR sul filetto**
***The item will be supplied with "O" ring on thread***

## Applicazione
## *Application*

Oltre all'esigenza di un solido ancoraggio del raccordo sulla guaina, esiste anche la necessità di rendere stagna ed inamovibile (in caso di strappo o trazione) l'accoppiamento raccordo-cavo elettrico proveniente da canaline, cassette, motori, quadri elettrici, ecc.
Il raccordo CMPR risolve brillantemente ambedue le necessità.
L'ancoraggio del raccordo sulla guaina è garantito con la medesima efficacia che contraddistingue l'ancoraggio di tutti i raccordi della serie CM, inoltre il particolare gommino pressacavo assicura sia la tenuta (da infiltrazioni di polvere e liquidi) che la protezione meccanica da eventuali strappi o trazioni del cavo stesso.

*As well as secure anchoring of the connector and the conduit, it is also necessary to guarantee solidity and insulation for the electric continuity of the couple (in case of traction or jerking movements) for current from sub- circuits, boxes, motors and electric switchboards etc.*
*The CMPR series answers both these needs brilliantly.*
*The secure fixing of fitting and conduit is guaranteed by the efficiency that characterises all the fittings in the CM range, and further by the special rubber pressure washer which makes the pair waterproof both to water and dust and provides mechanical protection against jerks and traction on the conduit itself.*

**EXCMPR - Raccordo in ottone con pressacavo filetto ISO metrico - con continuità metallica**

| Codice ISO Metrico | Certificazioni | F Filetto ISO Metrico | Codice Guaina NW | ∅ guaina mm int. est. | ∅ cavo mm Min Max | Colore Gommino | A mm | B Passaggio utile mm | L mm | OD1 mm | OD2 mm | OD3 mm | SP1 mm | SP2 mm | SP3 mm | Confezione Standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EXCMPR1006M16** | | M16x1,5 | 10 | 10,0 - 15,0 | 4 - 6,5 | Giallo - *Yellow* | 8 | 8,5 | 44 | 21 | 25 | 26 | 19 | 22 | 24 | 1 |
| **EXCMPR1008M16** | | | | | 5 - 8 | Grigio - *Grey* | | | | | | | | | | |
| **EXCMPR1208M20** | | M20X1,5 | 12 | 12,0 - 17,0 | 5 - 8 | Grigio - *Grey* | 8 | 10,5 | 45 | 24 | 27,5 | 29 | 22 | 24 | 26 | 1 |
| **EXCMPR1209M20** | | | | | 6,5 - 9,5 | Nero - *Black* | | | | | | | | | | |
| **EXCMPR1210M20** | | | | | 7 - 10,5 | Verde - *Green* | | | | | | | | | | |
| **EXCMPR1509M20** | | M20X1,5 | 15 | 15,5 - 21,0 | 6,5 - 9,5 | Nero - *Black* | 8 | 13,8 | 45 | 24 | 32 | 33 | 22 | 28 | 30 | 1 |
| **EXCMPR1510M20** | | | | | 7 - 10,5 | Verde - *Green* | | | | | | | | | | |
| **EXCMPR1513M20** | | | | | 9 - 13 | Rosso - *Red* | | | | | | | | | | |
| **EXCMPR1509M25** | | M25X1,5 | 15 | 15,5 - 21,0 | 6,5 - 9,5 | Nero - *Black* | 9 | 13,8 | 47,5 | 30 | 32 | 33 | 28 | 28 | 30 | 1 |
| **EXCMPR1510M25** | | | | | 7 - 10,5 | Verde - *Green* | | | | | | | | | | |
| **EXCMPR1513M25** | | | | | 9 - 13 | Rosso - *Red* | | | | | | | | | | |
| **EXCMPR2018M25** | | M25X1,5 | 20 | 20,5 - 27,0 | 14 - 18 | Blu - *Blue* | 9 | 18,5 | 52 | 33 | 39 | 42,5 | 30 | 35 | 38 | 1 |
| **EXCMPR2718M32** | | M32X1,5 | 27 | 26,5 - 34,0 | 14 - 18 | Blu - *Blue* | 10 | 25 | 54,5 | 37,5 | 45 | 49,5 | 35 | 42 | 45 | 1 |
| **EXCMPR2720M32** | | | | | 17 - 20,5 | Marrone - *Brown* | | | | | | | | | | |
| **EXCMPR2725M32** | | | | | 20 - 25 | Arancione - *Orange* | | | 57,5 | 43 | | | 40 | | | |
| **EXCMPR3530M40** | | M40X1,5 | 35 | 35,0 - 43,0 | 26 - 30 | Bianco - *White* | 10 | 33 | 65 | 48 | 55 | 58 | 45 | 50 | 53 | 1 |
| **EXCMPR4032M50** | | M50X1,5 | 40 | 40,0 - 48,0 | 27 - 32 | Antracite - *Anthracite* | 12 | 37,5 | 64 | 57 | 64 | 66,5 | 52 | 58 | 61 | 1 |
| **EXCMPR4034M50** | | | | | 29 - 34 | Azzurro - *Light blue* | | | | | | | | | | |
| **EXCMPR4036M50** | | | | | 32 - 36 | Rosa - *Pink* | | | | | | | | | | |
| **EXCMPR5045M63** | | M63X1,5 | 50 | 50,5 - 58,5 | 39 - 44 | Bianco - *White* | 10 | 48 | 69 | 70 | 76 | 80,5 | 64 | 70 | 74 | 1 |
| ***REF. Part N. ISO Metric*** | ***Approvals*** | ***F ISO Metric Thread*** | ***Conduit Code NW*** | ***int. ext. ∅ conduit mm*** | ***Min Max ∅ cable mm*** | ***Seal Colour*** | ***A mm*** | ***B useful passage mm*** | ***L mm*** | ***OD1 mm*** | ***OD2 mm*** | ***OD3 mm*** | ***SP1 mm*** | ***SP2 mm*** | ***SP3 mm*** | ***Packing unit*** |

***EXCMPR - Brass fittings with strain relief ISO metric thread - with metallic continuity***

QR CODE: istruzioni di montaggio
*QR CODE: assembly instructions*

# METALLICA - *DOUBLE LOCKING BRASS FITTINGS WITH METALLIC CONTINUITY STRAIGHT WITH STRAIN RELIEF*

## EXCMPR - Raccordo in ottone con pressacavo filetto PG - con continuità metallica

| Codice PG | Certificazioni | F Filetto PG | Codice Guaina NW | ∅ guaina mm int. | ∅ guaina mm est. | ∅ cavo mm Min | ∅ cavo mm Max | Colore Gommino | A mm | B Passaggio utile mm | L mm | OD1 mm | OD2 mm | OD3 mm | SP1 mm | SP2 mm | SP3 mm | Confezione Standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXCMPRP10PG96 | | 9 | 10 | 10,0 | 15,0 | 4 | 6,5 | Giallo - *Yellow* | 6 | 8,5 | 43 | 19 | 25 | 26 | 17 | 22 | 24 | 1 |
| EXCMPRP10PG98 | | | | | | 5 | 8 | Grigio - *Grey* | | | | | | | | | | |
| EXCMPRP10PG116 | | 11 | 10 | 10,0 | 15,0 | 4 | 6,5 | Giallo - *Yellow* | 6 | 8,5 | 43 | 22 | 25 | 26 | 20 | 22 | 24 | 1 |
| EXCMPRP10PG118 | | | | | | 5 | 8 | Grigio - *Grey* | | | | | | | | | | |
| EXCMPRP12PG118 | | 11 | 12 | 12,0 | 17,0 | 5 | 8 | Grigio - *Grey* | 6 | 10,5 | 43 | 22 | 27,5 | 29 | 20 | 24 | 26 | 1 |
| EXCMPRP12PG119 | | | | | | 6,5 | 9,5 | Nero - *Black* | | | | | | | | | | |
| EXCMPRP12PG1110 | | | | | | 7 | 10,5 | Verde - *Green* | | | | | | | | | | |
| EXCMPRP12PG138 | | 13,5 | 12 | 12,0 | 17,0 | 5 | 8 | Grigio - *Grey* | 6,5 | 10,5 | 43,5 | 24 | 27,5 | 29 | 22 | 24 | 26 | 1 |
| EXCMPRP12PG139 | | | | | | 6,5 | 9,5 | Nero - *Black* | | | | | | | | | | |
| EXCMPRP12PG1310 | | | | | | 7 | 10,5 | Verde - *Green* | | | | | | | | | | |
| EXCMPRP12PG168 | | 16 | 12 | 12,0 | 17,0 | 5 | 8 | Grigio - *Grey* | 6,5 | 10,5 | 42,5 | 26,5 | 27,5 | 29 | 24 | 24 | 26 | 1 |
| EXCMPRP12PG169 | | | | | | 6,5 | 9,5 | Nero - *Black* | | | | | | | | | | |
| EXCMPRP12PG1610 | | | | | | 7 | 10,5 | Verde - *Green* | | | | | | | | | | |
| EXCMPRP15PG139 | | 13,5 | 15 | 15,5 | 21,0 | 6,5 | 9,5 | Nero - *Black* | 6,5 | 13,8 | 43 | 24 | 32 | 33 | 22 | 28 | 30 | 1 |
| EXCMPRP15PG1310 | | | | | | 7 | 10,5 | Verde - *Green* | | | | | | | | | | |
| EXCMPRP15PG1313 | | | | | | 9 | 13 | Rosso - *Red* | | | | | | | | | | |
| EXCMPRP15PG169 | | 16 | 15 | 15,5 | 21,0 | 6,5 | 9,5 | Nero - *Black* | 6,5 | 13,8 | 44,5 | 26,5 | 32 | 33 | 24 | 28 | 30 | 1 |
| EXCMPRP15PG1610 | | | | | | 7 | 10,5 | Verde - *Green* | | | | | | | | | | |
| EXCMPRP15PG1613 | | | | | | 9 | 13 | Rosso - *Red* | | | | | | | | | | |
| EXCMPRP20PG2113 | | 21 | 20 | 20,5 | 27,0 | 9 | 13 | Rosso - *Red* | 7,5 | 18,5 | 50 | 32 | 39 | 42,5 | 30 | 35 | 38 | 1 |
| EXCMPRP20PG2115 | | | | | | 11,5 | 15,5 | Bianco - *White* | | | | | | | | | | |
| EXCMPRP20PG2118 | | | | | | 14 | 18 | Blu - *Blue* | | | | | | | | | | |
| EXCMPRP27PG2918 | | 29 | 27 | 26,5 | 34,0 | 14 | 18 | Blu - *Blue* | 9 | 25 | 57 | 43 | 45 | 49,5 | 40 | 42 | 45 | 1 |
| EXCMPRP27PG2920 | | | | | | 17 | 20,5 | Marrone - *Brown* | | | | | | | | | | |
| EXCMPRP27PG2925 | | | | | | 20 | 25 | Arancione - *Orange* | | | | | | | | | | |
| EXCMPRP35PG3632 | | 36 | 35 | 35,0 | 43,0 | 27 | 32 | Antracite - *Anthracite* | 9 | 33 | 56 | 55 | 55 | 58 | 50 | 50 | 53 | 1 |
| EXCMPRP40PG3632 | | 36 | 40 | 40,0 | 48,0 | 27 | 32 | Antracite - *Anthracite* | 9 | 37,5 | 61 | 55 | 64 | 66,5 | 50 | 58 | 61 | 1 |
| EXCMPRP40PG3634 | | | | | | 29 | 34 | Azzurro - *Light blue* | | | | | | | | | | |
| EXCMPRP40PG3636 | | | | | | 32 | 36 | Rosa - *Pink* | | | | | | | | | | |
| EXCMPRP50PG4845 | | 48 | 50 | 50,5 | 58,5 | 39 | 44 | Bianco - *White* | 10 | 48 | 68,5 | 70 | 76 | 80,5 | 64 | 70 | 74 | 1 |
| *REF. Part N. PG* | *Approvals* | *F PG Thread* | *Conduit Code NW* | *int.* | *ext. ∅ conduit mm* | *Min* | *Max ∅ cable mm* | *Seal Colour* | *A mm* | *B useful passage mm* | *L mm* | *OD1 mm* | *OD2 mm* | *OD3 mm* | *SP1 mm* | *SP2 mm* | *SP3 mm* | *Packing unit* |

***EXCMPR - Brass fittings with strain relief PG thread - with metallic continuity***

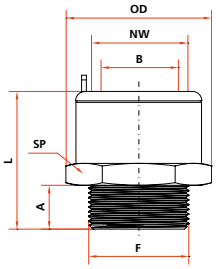
## EXCMPR - Raccordo in ottone con pressacavo filetto GAS - con continuità metallica

| Codice GAS | Certificazioni | F Filetto GAS | Codice Guaina NW | ∅ guaina mm int. | ∅ guaina mm est. | ∅ cavo mm Min | ∅ cavo mm Max | Colore Gommino | A mm | B Passaggio utile mm | L mm | OD1 mm | OD2 mm | OD3 mm | SP1 mm | SP2 mm | SP3 mm | Confezione Standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXCMPRG106 | | 1/4" | 10 | 10,0 | 15,0 | 4 | 6,5 | Giallo - *Yellow* | 6 | 8,5 | 9,5 | 16,5 | 25 | 26 | 15 | 22 | 24 | 1 |
| EXCMPRG10A6 | | 3/8" | 10 | 10,0 | 15,0 | 4 | 6,5 | Giallo - *Yellow* | 7 | 8,5 | 43,5 | 21 | 25 | 26 | 19 | 22 | 24 | 1 |
| EXCMPRG10A8 | | | | | | 5 | 8 | Grigio - *Grey* | | | | | | | | | | |
| EXCMPRG128 | | 3/8" | 12 | 12,0 | 17,0 | 5 | 8 | Grigio - *Grey* | 7 | 10,5 | 43,5 | 21 | 27,5 | 29 | 19 | 24 | 26 | 1 |
| EXCMPRG129 | | | | | | 6,5 | 9,5 | Nero - *Black* | | | | | | | | | | |
| EXCMPRG12A8 | | 1/2" | 12 | 12,0 | 17,0 | 5 | 8 | Grigio - *Grey* | 9 | 10,5 | 46 | 26 | 27,5 | 29 | 24 | 24 | 26 | 1 |
| EXCMPRG12A9 | | | | | | 6,5 | 9,5 | Nero - *Black* | | | | | | | | | | |
| EXCMPRG12A10 | | | | | | 7 | 10,5 | Verde - *Green* | | | | | | | | | | |
| EXCMPRG159 | | 1/2" | 15 | 15,5 | 21,0 | 6,5 | 9,5 | Nero - *Black* | 9 | 13,8 | 46 | 26 | 32 | 33 | 24 | 28 | 30 | 1 |
| EXCMPRG1510 | | | | | | 7 | 10,5 | Verde - *Green* | | | | | | | | | | |
| EXCMPRG1513 | | | | | | 9 | 13 | Rosso - *Red* | | | | | | | | | | |
| EXCMPRG2018 | | 3/4" | 20 | 20,5 | 27,0 | 14 | 18 | Blu - *Blue* | 10 | 18,5 | 53 | 32 | 39 | 42,5 | 30 | 35 | 38 | 1 |
| EXCMPRG2718 | | 1" | 27 | 26,5 | 34,0 | 14 | 18 | Blu - *Blue* | 11 | 25 | 58 | 38,5 | 45 | 49,5 | 35 | 42 | 45 | 1 |
| EXCMPRG2720 | | | | | | 17 | 20,5 | Marrone - *Brown* | | | | | | | | | | |
| EXCMPRG2725 | | | | | | 20 | 25 | Arancione - *Orange* | | | 57,5 | 43 | | | 40 | | | |
| EXCMPRG3530 | | 1"1/4 | 35 | 35,0 | 43,0 | 26 | 30 | Bianco - *White* | 9 | 33 | 55,5 | 48 | 55 | 58 | 45 | 50 | 53 | 1 |
| EXCMPRG4032 | | 1"1/2 | 40 | 40,0 | 48,0 | 27 | 32 | Antracite - *Anthracite* | 9 | 37,5 | 61,5 | 55 | 64 | 66,5 | 50 | 58 | 61 | 1 |
| EXCMPRG4034 | | | | | | 29 | 34 | Azzurro - *Light blue* | | | | | | | | | | |
| EXCMPRG4036 | | | | | | 32 | 36 | Rosa - *Pink* | | | | | | | | | | |
| EXCMPRG5045 | | 2" | 50 | 50,5 | 58,5 | 39 | 44 | Bianco - *White* | 10 | 48 | 68,5 | 70 | 76 | 80,5 | 64 | 70 | 74 | 1 |
| *REF. Part N. GAS* | *Approvals* | *F GAS Thread* | *Conduit Code NW* | *int.* | *ext. ∅ conduit mm* | *Min* | *Max ∅ cable mm* | *Seal Colour* | *A mm* | *B useful passage mm* | *L mm* | *OD1 mm* | *OD2 mm* | *OD3 mm* | *SP1 mm* | *SP2 mm* | *SP3 mm* | *Packing unit* |

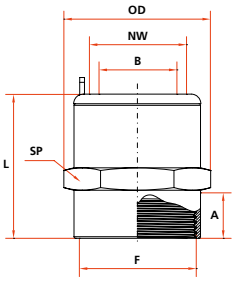
***EXCMPR - Brass fittings with strain relief GAS thread - with metallic continuity***

# EXARM-EXARF

## Raccordi ad innesto rapido filetto maschio e femmina
## *Male and female thread quick lock fittings*




ARM




ARF

I raccordi sono completi della guarnizione GAM
*The fittings are equipped with GAM gasket*

## Applicazione
## *Application*

**Grado di protezione: IP67**
***IP rating: IP67***

**EXARM - Raccordo ad innesto rapido in ottone filetto maschio**

| Codice GAS | F Filetto GAS | B Passaggio utile mm | Codice ISO Metrico | Certificazioni | F Filetto ISO Metrico | B Passaggio utile mm | Certificazioni | NW ∅ tubo STD-STDX | A mm | L mm | OD mm | SP mm | Confezione standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EXARM16** | 1/2" | 14 | **EXARM16M** | | M16X1,5 | 11 | | 16 | 10 | 38 | 27,8 | 24 | 20 |
| **EXARM20** | 1/2" | 15 | **EXARM20M** | | M20X1,5 | 15,5 | | 20 | 10 | 38 | 32 | 28 | 20 |
| **EXARM20A** | 3/4" | 18 | | | | | | 20 | 10 | 38 | 32 | 28 | 20 |
| **EXARM25** | 3/4" | 20 | **EXARM25M** | | M25X1,5 | 20 | | 25 | 10 | 39 | 38 | 33 | 10 |
| **EXARM25A** | 1" | 23 | | | | | | 25 | 12 | 43 | 40,5 | 35 | 10 |
| **EXARM32** | 1" | 26,5 | **EXARM32M** | | M32X1,5 | 26,5 | | 32 | 14 | 44 | 46 | 40 | 10 |
| **EXARM40** | 1"1/4 | 35 | **EXARM40M** | | M40X1,5 | 35 | | 40 | 15 | 51 | 55 | 50 | 5 |
| **EXARM50** | 1"1/2 | 40 | **EXARM50M** | | M50X1,5 | 42 | | 50 | 15 | 51 | 65 | 60 | 5 |
| **EXARM50A** | 2" | 47 | | | | | | 50 | 15 | 51,5 | 72 | 64 | 2 |
| *REF. Part N. GAS* | *F GAS Thread* | *B useful passage mm* | *REF. Part N. ISO Metric* | *Approvals* | *F ISO Metric Thread* | *B useful passage mm* | *Approvals* | *NW ∅ pipe STD-STDX* | *A mm* | *L mm* | *OD mm* | *SP mm* | *Packing unit* |

***EXARM - Brass quick lock fittings male thread***

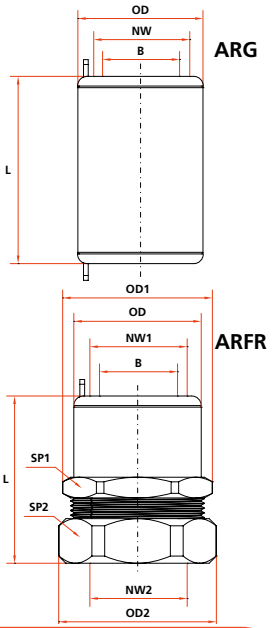
**EXARF - Raccordo ad innesto rapido in ottone filetto femmina**

| Codice GAS | F Filetto GAS | B Passaggio utile mm | Codice ISO Metrico | Certificazioni | F Filetto ISO Metrico | B Passaggio utile mm | Certificazioni | NW ∅ tubo STD-STDX | A mm | L mm | OD mm | SP mm | Confezione standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EXARF16** | 1/2" | 14 | **EXARF16M** | | M16X1,5 | 14 | | 16 | 10 | 38 | 27,8 | 24 | 20 |
| **EXARF20** | 3/4" | 18 | **EXARF20M** | | M20X1,5 | 18 | | 20 | 10 | 38 | 32 | 28 | 20 |
| **EXARF25** | 3/4" | 22,5 | **EXARF25M** | | M25X1,5 | 22,5 | | 25 | 10 | 39 | 38 | 33 | 10 |
| **EXARF32** | 1" | 29,5 | **EXARF32M** | | M32X1,5 | 29,5 | | 32 | 14 | 44 | 46 | 40 | 10 |
| **EXARF40** | 1"1/4 | 37,5 | **EXARF40M** | | M40X1,5 | 37,5 | | 40 | 15 | 51 | 55 | 50 | 5 |
| **EXARF50** | 1"1/2 | 43,5 | **EXARF50M** | | M50X1,5 | 47,5 | | 50 | 15 | 51 | 65 | 60 | 5 |
| **EXARF50A** | 2" | 47,5 | | | | | | 50 | 15 | 51,5 | 72 | 64 | 2 |
| *REF. Part N. GAS* | *F GAS Thread* | *B useful passage mm* | *REF. Part N. ISO Metric* | *Approvals* | *F ISO Metric Thread* | *B useful passage mm* | *Approvals* | *NW ∅ pipe STD-STDX* | *A mm* | *L mm* | *OD mm* | *SP mm* | *Packing unit* |

***EXARF - Brass quick lock fittings female thread***

# EXARG-EXARFR

## Giunti ad innesto rapido
## *Quick lock fittings*



I raccordi sono completi della guarnizione GAM
*The fittings are equipped with GAM gasket*

## Applicazione
## *Application*

**Grado di protezione: IP67**
***IP rating: IP67***

**EXARG - Giunto ad innesto rapido in ottone**

| Codice | Certificazioni | NW ∅ tubo STD-STDX | B Passaggio utile mm | L mm | OD mm | Confezione standard |
|---|---|---|---|---|---|---|
| **EXARG16** | | 16 | 14 | 54 | 24 | 10 |
| **EXARG20** | | 20 | 18 | 54 | 28 | 10 |
| **EXARG25** | | 25 | 22,5 | 56 | 33 | 10 |
| **EXARG32** | | 32 | 29,5 | 56 | 40 | 5 |
| **EXARG40** | | 40 | 37,5 | 70 | 60 | 5 |
| **EXARG50** | | 50 | 47,5 | 70 | 50 | 2 |
| ***REF. Part N.*** | ***Approvals*** | ***NW ∅ pipe STD-STDX*** | ***B useful passage mm*** | ***L mm*** | ***OD mm*** | ***Packing unit*** |

***EXARG - Brass quick lock pipe splice connectors***

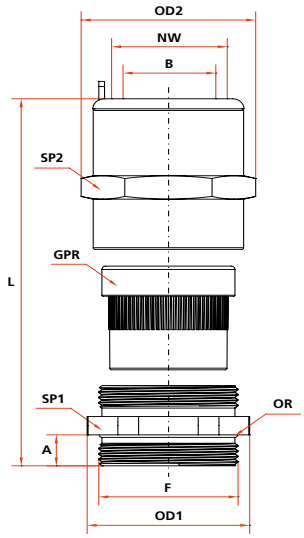
**EXARFR - Giunto in ottone ad innesto rapido tra tubo STD e guaine metalliche tipo L-P-DAR-SVT-T-TP**

| Codice | Certificazioni | NW1 ∅ tubo STD-STDX | NW2 Codice Guaina | ∅ guaina mm int. est. | B Passaggio utile mm | L mm | OD mm | OD1 mm | OD2 mm | SP1 mm | SP2 mm | Confezione standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EXARFR16** | | 16 | 15 | 15,5 - 21,0 | 13,8 | 45,5 | 24 | 32 | 33 | 28 | 30 | 20 |
| **EXARFR163** | | 16 | 12 | 12,0 - 17,0 | 10,5 | 45,5 | 24 | 27,8 | 29 | 24 | 26 | 20 |
| **EXARFR20** | | 20 | 15 | 15,5 - 21,0 | 13,8 | 45,5 | 28 | 32 | 33 | 28 | 30 | 20 |
| **EXARFR20A** | | 20 | 20 | 20,5 - 27,0 | 18,0 | 48,5 | 28 | 40,5 | 42,5 | 35 | 38 | 10 |
| **EXARFR25** | | 25 | 20 | 20,5 - 27,0 | 18,1 | 49,5 | 33 | 40,5 | 42,5 | 35 | 38 | 10 |
| **EXARFR25A** | | 25 | 25 | 25,0 - 32,0 | 22,5 | 51 | 33 | 46 | 46,5 | 40 | 42 | 10 |
| **EXARFR25B** | | 25 | 27 | 26,5 - 34,0 | 22,5 | 51 | 33 | 48,5 | 49,5 | 42 | 45 | 10 |
| **EXARFR32** | | 32 | 27 | 26,5 - 34,0 | 24,5 | 51,5 | 40 | 48,5 | 49,5 | 42 | 45 | 5 |
| **EXARFR32A** | | 32 | 33 | 33,0 - 41,0 | 29,5 | 53,5 | 40 | 55 | 58 | 50 | 53 | 5 |
| **EXARFR32B** | | 32 | 35 | 35,0 - 43,0 | 29,5 | 53,5 | 40 | 55 | 58 | 50 | 53 | 5 |
| **EXARFR40** | | 40 | 33 | 33,0 - 41,0 | 30,8 | 60,5 | 50 | 56 | 58 | 50 | 53 | 5 |
| **EXARFR40A** | | 40 | 35 | 35,0 - 43,0 | 32,8 | 60,5 | 50 | 56 | 58 | 50 | 53 | 5 |
| **EXARFR40B** | | 40 | 40 | 40,0 - 48,0 | 37,5 | 63,5 | 50 | 64 | 66,5 | 58 | 61 | 5 |
| **EXARFR50** | | 50 | 50 | 50,5 - 58,5 | 47,5 | 64 | 60 | 76 | 80,5 | 70 | 74 | 2 |
| **EXARFR50A** | | 50 | 40 | 40,0 - 48,0 | 37,5 | 63,5 | 60 | 66 | 66,5 | 60 | 61 | 2 |
| ***REF. Part N.*** | ***Approvals*** | ***NW1 ∅ pipe STD-STDX*** | ***NW2 Conduit code*** | ***int. ext. ∅ conduit mm*** | ***B useful passage mm*** | ***L mm*** | ***OD mm*** | ***OD1 mm*** | ***OD2 mm*** | ***SP1 mm*** | ***SP2 mm*** | ***Packing unit*** |

***EXARFR - Brass quick lock STD pipe metal conduit type L-P-DAR-SVT-T-TP splice connectors***

# EXARPR

## Raccordi ad innesto rapido doppio bloccaggio
## *Quick lock fittings with strain relief*



I raccordi sono completi della guarnizione GAM
*The fittings are equipped with GAM gasket*

## Applicazione
## *Application*

Oltre all'esigenza di un solido ancoraggio del raccordo sul tubo, esiste anche la necessità di rendere stagno ed inamovibile (in caso di strappo o trazione) l'accoppiamento raccordo - cavo elettrico - proveniente da canaline, cassette, motori, quadri elettrici, ecc.
Il raccordo ARPR risolve brillantemente ambedue le necessità.
L'ancoraggio del raccordo sul tubo zincato STD è garantito con la medesima efficacia che contraddistingue l'ancoraggio di tutti i particolari della serie AR, inoltre il particolare gommino pressacavo assicura sia la tenuta stagna (da infiltrazioni di polveri e liquidi) che la protezione meccanica da eventuali strappi o trazioni al cavo stesso.
Grado di protezione: IP 67

*As well as secure anchoring of the connector and the pipe, it is also necessary to guarantee solidity and insulation for the electric continuity of the couple (in case of traction or jerking movements) for current from sub-circuits, boxes, motors, electric switchboards, etc.*
*The ARPR series fits both these needs brilliantly. The secure fixing of fitment and pipe is guaranteed by the efficiency that distinguishes all the fittings in the AR range and further by the special plasticised pressure washer which assures the couple impermeable both to water and dust and provides mechanical protection against jerks and traction on the pipe itself.*
*IP rating: IP 67*

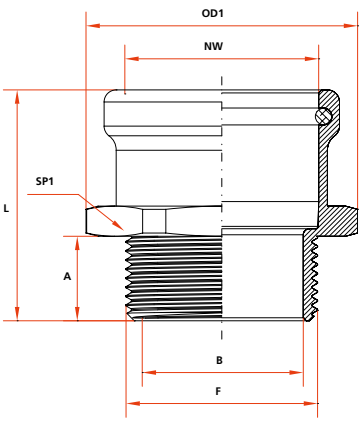
**EXARPR - Raccordo a innesto rapido in ottone con pressacavo filetto ISO metrico**

| Codice ISO metrico | Certificazioni | F Filetto ISO Metrico | NW Ø Tubo STD | ∅ cavo mm Min Max | Colore Gommino | A mm | B Passaggio utile mm | L mm | OD1 mm | OD2 mm | SP1 mm | SP2 mm | Confezione standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EXARPR1606M16** | | | | 4 - 6,5 | Giallo - *Yellow* | | | | | | | | |
| **EXARPR1608M16** | | M16X1,5 | 16 | 5 - 8 | Grigio - *Grey* | 8 | 10,5 | 55,5 | 21 | 17,8 | 19 | 24 | 1 |
| **EXARPR1609M16** | | | | 6,5 - 9,5 | Nero - *Black* | | | | | | | | |
| **EXARPR2007M20** | | | | 4 - 6,5 | Giallo - *Yellow* | | | | | | | | |
| **EXARPR2008M20** | | | | 5 - 8 | Grigio - *Grey* | | | | | | | | |
| **EXARPR2009M20** | | M20X1,5 | 20 | 6,5 - 9,5 | Nero - *Black* | 8 | 14,5 | 55,5 | 24 | 32 | 22 | 28 | 1 |
| **EXARPR2011M20** | | | | 7 - 10,5 | Verde - *Green* | | | | | | | | |
| **EXARPR2013M20** | | | | 9 - 13 | Rosso - *Red* | | | | | | | | |
| **EXARPR2518M25** | | | | 14 - 18 | Blu - *Blue* | | | | | | | | |
| **EXARPR2520M25** | | M25X1,5 | 25 | 17 - 20,5 | Marrone - *Brown* | 9 | 20,5 | 56 | 33 | 38 | 30 | 33 | 1 |
| **EXARPR3225M32** | | M32X1,5 | 32 | 20 - 25 | Arancione - *Orange* | 10 | 26 | 67,5 | 43 | 44 | 40 | 40 | 1 |
| **EXARPR4030M40** | | M40X1,5 | 40 | 26 - 30 | Bianco - *White* | 10 | 32 | 73,5 | 48 | 55 | 45 | 50 | 1 |
| **EXARPR5034M50** | | | | 29 - 34 | Azzurro - *Light blue* | | | | | | | | |
| **EXARPR5036M50** | | M50X1,5 | 50 | 32 - 36 | Rosa - *Pink* | 12 | 37,5 | 78 | 57 | 66 | 52 | 60 | 1 |
| ***REF. Part N. ISO metric*** | ***Approvals*** | ***F ISO Metric Thread*** | ***NW ∅ pipe STD*** | ***Min Max ∅ cable mm*** | ***Seal Colour*** | ***A mm*** | ***B useful passage mm*** | ***L mm*** | ***OD1 mm*** | ***OD2 mm*** | ***SP1 mm*** | ***SP2 mm*** | ***Packing unit*** |

***EXARPR - Brass quick lock fittings with strain relief ISO metric thread***

# EXFIM...X316

## Raccordi in acciaio INOX AISI 316L ad innesto rapido filetto maschio
## *Stainless steel AISI 316L male thread self-locking quick fittings*




**SERIE FI - Modello depositato**
***FI SERIES - Design patented***

I raccordi sono completi della guarnizione GAM
*The fittings are equipped with GAM gasket*

### Applicazione *Application*

**EXFIM** - I raccordi ad innesto rapido permettono di collegare il tubo in acciaio inox STDX AISI 304 e AISI 316L, riducendo notevolmente i tempi di installazione e garantendo un elevato grado di protezione.
Si caratterizzano sia per il costo contenuto che per la facilità di installazione.
Sono particolarmente indicati per installazioni in ambienti gravosi dove è necessario un alto grado di resistenza dei materiali utilizzati: settori autostradale e ferroviario (anche in gallerie), chimico-petrolchimico, farmaceutico, alimentare.

***EXFIM*** *quick fit fittings allow the connection with Teaflex stainless steel pipe STDX AISI 304 and AISI 316L, reducing time of installation and ensuring an high IP rating.*

***EXFIM*** *fittings are cheap and easy to install.*

*Particularly suitable for harsh environment installation where a high resistance of the materials is required: highways and railways (including tunnels), chemical and petrochemical, farmaceutical, food industry sectors.*

### Materiale *Material*

Acciaio inox AISI 316L

*Stainless steel AISI 316L*

### Caratteristiche prodotto *Product characteristics*

Eccellente resistenza ad agenti chimici e ambientali
Ottima resistenza meccanica
Ottima resistenza alla fiamma
Grado di protezione: IP67
Continuità elettrica garantita secondo le norme EN 50086

*Excellent resistance to chemicals and weathering*
*Excellent mechanical strenght*
*Excellent flame class*
*IP Rating: 67*
*Electrical continuity guaranted according to EN 50086 specifications*

### Certificazioni *Approvals*

CEI EN 61386 - 1 2005-04
Brevetto n°0000272245

*CEI EN 61386 - 1 2005-04*
*Patent n°0000272245*

### Compatibilità *Suitable for*

Compatibilità con tubi in acciaio Inox STDX.

*Compatible with all Teaflex stainless steel pipes STDX.*

**EXFIM...X316 - Raccordo filetto maschio in acciaio inox AISI 316L con continuità metallica per tubo STDX**

| Codice | Certificazioni | F Filetto ISO Metrico | NW ø tubo STDX | A mm | B mm | L mm | OD1 mm | SP1 mm | Confezione standard |
|---|---|---|---|---|---|---|---|---|---|
| EXFIM16M16X316 | Ex | M16X1,5 | 16 | 10 | 11,5 | 32 | 27 | 24 | 20 |
| EXFIM20M20X316 | Ex | M20X1,5 | 20 | 10 | 15,5 | 32 | 30 | 33 | 20 |
| EXFIM25M25X316 | Ex | M25X1,5 | 25 | 10 | 20,5 | 33 | 39 | 36 | 10 |
| EXFIM32M32X316 | Ex | M32X1,5 | 32 | 14 | 27 | 38,5 | 45 | 41 | 10 |
| EXFIM40M40X316 | Ex | M40X1,5 | 40 | 15 | 35 | 44,5 | 56,5 | 50 | 5 |
| EXFIM50M50X316 | Ex | M50X1,5 | 50 | 15 | 45 | 45 | 68 | 60 | 5 |
| *REF. Part N.* | *Approvals* | *F ISO Metric thread* | *NW ø STDX pipe* | *A mm* | *B mm* | *L mm* | *OD1 mm* | *SP1 mm* | *Packing unit* |

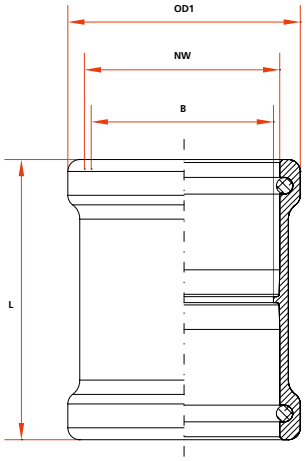
***EXFIM...X316 - Stainless steel AISI 316L male fittings for STDX pipes with metallic continuity***

Esempio d'ordine / *Order example:* **EXFIM16M16X316**

| | |
|---|---|
| **EXFIM** | Codice serie - *Family type* |
| **16** | Diametro tubo - *Pipe diameter* |
| **M16** | Dimensione filetto - *Thread dimension* |
| **X316** | Material - *Material* |

# EXFIG...X316

## Giunti in acciaio INOX AISI 316L ad innesto rapido
## *Stainless steel AISI 316L self-locking quick fittings*




**SERIE FI - Modello depositato**
***FI SERIES - Design patented***

### Applicazione *Application*

**EXFIG** - I giunti di collegamento ad innesto rapido permettono di collegare il tubo in acciaio inox STDX AISI 304 e AISI 316L, riducendo notevolmente i tempi di installazione e garantendo un elevato grado di protezione.
Si caratterizzano sia per il costo contenuto che per la facilità di installazione.
Sono particolarmente indicati per installazioni in ambienti gravosi dove è necessario un alto grado di resistenza dei materiali utilizzati: settori autostradale e ferroviario (anche in gallerie), chimico-petrolchimico, farmaceutico, alimentare.

***EXFIG*** *quick fit sleeve-pipe fittings allow the connection with Teaflex stainless steel pipe STDX AISI 304 and AISI 316L, reducing time of installation and ensuring an high IP rating.*

***EXFIG*** *fittings are cheap and easy to install.*

*Particularly suitable for harsh environment installation where a high resistance of the materials is required: highways and railways (including tunnels), chemical and petrochemical, farmaceutical, food industry sectors.*

### Materiale *Material*

Acciaio inox AISI 316L

*Stainless steel AISI 316L*

### Caratteristiche prodotto *Product characteristics*

Eccellente resistenza ad agenti chimici e ambientali
Ottima resistenza meccanica
Ottima resistenza alla fiamma
Grado di protezione: IP67
Continuità elettrica garantita secondo le norme EN 50086

*Excellent resistance to chemicals and weathering*
*Excellent mechanical strenght*
*Excellent flame class*
*IP Rating: 67*
*Electrical continuity guaranted according to EN 50086 specifications*

### Certificazioni *Approvals*

CEI EN 61386 - 1 2005-04
Brevetto n°0000272245

*CEI EN 61386 - 1 2005-04*
*Patent n°0000272245*

### Compatibilità *Suitable for*

Compatibilità con tubi in acciaio Inox STDX.

*Compatible with all Teaflex stainless steel pipes STDX.*

**EXFIG...X316 - Raccordo tubo-tubo in acciaio inox AISI 316L con continuità metallica per tubi STDX**

| Codice | Certificazioni | NW ø tubo STDX | B mm | L mm | OD1 mm | Confezione standard |
|---|---|---|---|---|---|---|
| **EXFIG16X316** | Ex | 16 | 14 | 42 | 23 | 20 |
| **EXFIG20X316** | Ex | 20 | 18 | 42 | 27,6 | 20 |
| **EXFIG25X316** | Ex | 25 | 22,5 | 44 | 32,6 | 20 |
| **EXFIG32X316** | Ex | 32 | 29,5 | 47 | 39 | 10 |
| **EXFIG40X316** | Ex | 40 | 37,5 | 57,5 | 50 | 5 |
| **EXFIG50X316** | Ex | 50 | 47,5 | 57,5 | 59,7 | 2 |
| ***REF. Part N.*** | ***Approvals*** | ***NW ø STDX pipe*** | ***B mm*** | ***L mm*** | ***OD1 mm*** | ***Packing unit*** |

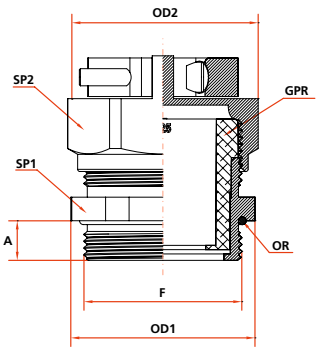
***EXFIG...X316 - Stainless steel AISI 316L sleeve pipe fittings for STDX pipes with metallic continuity***

Esempio d'ordine / *Order example:* **EXFIG16X316**

| | |
|---|---|
| **EXFIG** | Codice serie - *Family type* |
| **16** | Diametro tubo - *Pipe diameter* |
| **X316** | Material - *Material* |

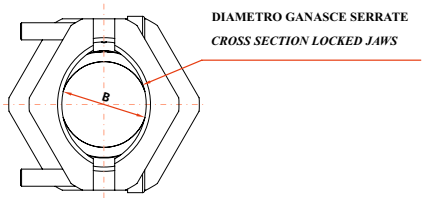
# EXPRAT

## Pressacavi anti torsione in ottone nichelato
## *Strain relief cable glands nickel plated*




Pressacavi in ottone nichelato con gommino di serraggio in TPE e anello "O" ring sulla filettatura. **Viti di serraggio acciaio inox AISI 304.**

*Strain relief brass cable glands nickel plated with TPE insert and "O" ring on thread.* **Stainless steel AISI 304 locking screws.**



Grado di protezione IP 67
*IP Rating IP 67*

Le particolari ganasce di questi pressacavi oltre a garantire una eccezionale tenuta a trazione del cavo evitano la possibilità di torsione del cavo stesso.

*The particular design of the jaws guarantees an excellent strain relief of the cable avoiding jerking movements.*

**Applicazione**
***Application***

### EXPRAT - Pressacavi industriali antitorsione in ottone nichelato

| CODICE GAS | F Filetto GAS | A mm | OD1-OD2 mm | SP1-SP2 mm | Confez. standard | CODICE PG | F Filetto PG | A mm | OD1-OD2 mm | SP1-SP2 mm | Confez. standard | CODICE METRICO | F Filetto ISO Metr. | A mm | OD1-OD2 mm | SP1-SP2 mm | Confez. standard | Certificazioni | B mm | Ø cavo mm Min. Max | Colore gommino |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXPRAT01211 | 1/2" | 9 | 26-27 | 24 | 20 | EXPRAT1311 | 13,5 | 6,5 | 24-27 | 22-24 | 20 | EXPRATM2011 | M20x1,5 | 8 | 24-27 | 22-24 | 20 | Ex | 9,1 | 7 - 10,5 | verde - *green* |
| EXPRAT01213 | | | | | | EXPRAT1313 | | | | | | EXPRATM2013 | | | | | | | | 9 - 13 | rosso - *red* |
| EXPRAT03413 | 3/4" | 10 | 32,5-29 | 30-26 | 10 | EXPRAT1613 | 16 | 6,5 | 26,5-29 | 24-26 | 20 | EXPRATM2513 | M25x1,5 | 9 | 30-29 | 28-26 | 20 | Ex | 10,5 | 9 - 13 | rosso - *red* |
| EXPRAT03416 | | | | | | EXPRAT1616 | | | | | | EXPRATM2516 | | | | | | | | 11,5 - 15,5 | bianco - *white* |
| EXPRAT03418 | | | | | | | | | | | | EXPRATM2518 | | | 33-29 | 30-26 | 10 | | 13,1 | 14 - 18 | blu - *blue* |
| EXPRAT03420 | | | | | | | | | | | | EXPRATM2520 | | | | | | | | 17 - 20,5 | marrone - *brown* |
| EXPRAT10016 | 1" | 11 | 38,5-33 | 35-30 | 10 | EXPRAT2116 | 21 | 7,5 | 32-33 | 30 | 10 | EXPRATM3216 | M32x1,5 | 10 | 37,5-33 | 35-30 | 10 | Ex | 13,1 | 11,5 - 15,5 | bianco - *white* |
| EXPRAT10018 | | | | | | EXPRAT2118 | | | | | | EXPRATM3218 | | | | | | | | 14 - 18 | blu - *blue* |
| EXPRAT10020 | | | | | | EXPRAT2120 | | | | | | EXPRATM3220 | | | | | | | | 17 - 20,5 | marrone - *brown* |
| EXPRAT10025 | | | 43-44,5 | 40 | | | | | | | | EXPRATM3225 | | | 43-44,5 | 40 | | 19,5 | 20 - 25 | arancione - *orange* |
| | | | | | | EXPRAT2920 | 29 | 9,25 | 43-44,5 | 40 | 10 | EXPRATM4020 | M40x1,5 | 10 | 47-44,5 | 42-40 | 10 | Ex | 19,5 | 17 - 20,5 | marrone - *brown* |
| | | | | | | EXPRAT2925 | | | | | | EXPRATM4025 | | | | | | | | 20 - 25 | arancione - *orange* |
| | | | | | | EXPRAT2928 | | | | | | EXPRATM4028 | | | | | | | | 24 - 28 | giallo chiaro - *light yellow* |
| EXPRAT11430 | 1"1/4 | 9 | 48-50 | 45 | 5 | | | | | | | EXPRATM4030 | | 10 | 48-50 | 45 | 5 | | 21,5 | 26 - 30 | bianco - *white* |
| EXPRAT11232 | 1"1/2 | 9 | 55-56 | 50 | 5 | EXPRAT3632 | 36 | 9 | 55-56 | 50 | 5 | EXPRATM5032 | M50x1,5 | 12 | 57-56 | 52-50 | 5 | Ex | 24 | 27 - 32 | antracite - *anthracite* |
| EXPRAT11234 | | | | | | EXPRAT3634 | | | | | | EXPRATM5034 | | | | | | | | 29 - 34 | azzurro - *light blue* |
| EXPRAT11236 | | | | | | EXPRAT3636 | | | | | | EXPRATM5036 | | | | | | | | 32 - 36 | rosa - *pink* |
| EXPRAT20044 | 2" | 10 | 70 | 64 | 2 | EXPRAT4844 | 48 | 10 | 70 | 64 | 2 | EXPRATM6344 | M63x1,5 | 10 | 70 | 64 | 2 | Ex | 39,5 | 39 - 44 | bianco - *white* |
| ***GAS NUMBER*** | ***F GAS thread*** | ***A mm*** | ***OD1-OD2 mm*** | ***SP1-SP2 mm*** | ***Packing unit*** | ***PG NUMBER*** | ***F PG thread*** | ***A mm*** | ***OD1-OD2 mm*** | ***SP1-SP2 mm*** | ***Packing unit*** | ***ISO METRIC NUMBER*** | ***F ISO Metric*** | ***A mm*** | ***OD1-OD2 mm*** | ***SP1-SP2 mm*** | ***Packing unit*** | ***Approvals*** | ***B mm*** | ***Cable Ø mm Min. Max*** | ***Seal color*** |

***EXPRAT - Industrial strain relief cable glands made of brass nickel plated***

Esempio d'ordine **KIT** / ***KIT*** *Order example:* **EXPRATM2516**

| | |
|---|---|
| **EXPRAT** | Pressacavo anti torsione in ottone nichelato - *Strain relief cable gland brass nickel plated* |
| **M** | Filettatura ISO metrico - *ISO metric thread* |
| **25** | Dimensione Filetto - *Thread dimension* |
| **16** | Passaggio cavo 11,5-15,5 / *Cable range 11,5-15,5* |

# Cataloghi/*Catalogues*

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**Guaine, raccordi e accessori in poliammide**
***Polyamide conduits, fittings, accessories***

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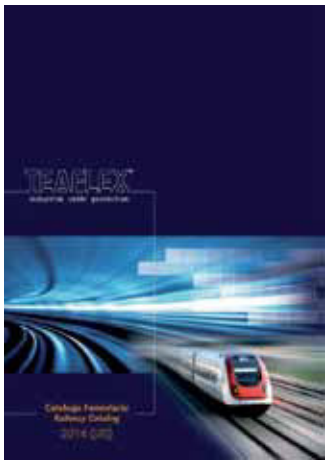

**Guaine, raccordi e accessori per applicazioni ferroviarie**
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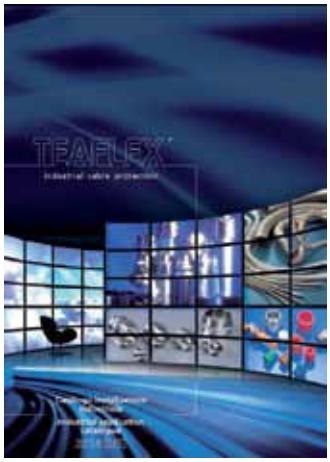
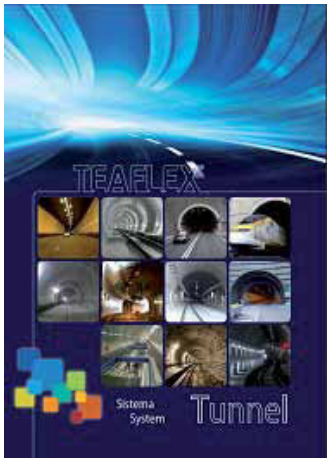


**Guaine e raccordi in metallo**
**Tubi, raccordi e accessori**
**Guaine e raccordi in pvc**
**Cassette e accessori**
**Pressacavi**

***Metal conduits and fittings,***
***Pipes, fittings, accessories***
***Pvc conduits and fittings***
***Boxes, accessories***
***Cable glands***

## SISTEMA TUNNEL - *TUNNEL SYSTEM*




**Guaine, raccordi, tubi, cassette e accessori per applicazioni in tunnel**
***Conduits, fittings, pipes, boxes and accessories for tunnel applications***

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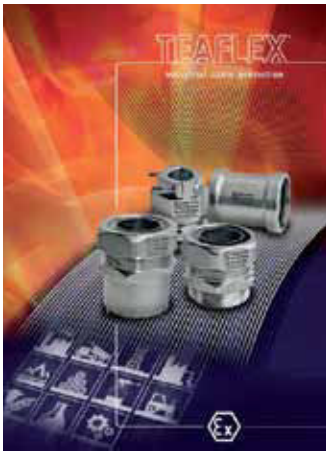
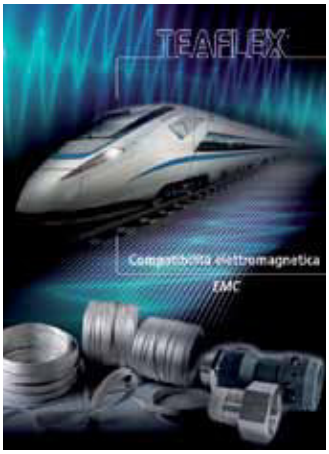


**Raccordi e pressacavi EX**
***EX fittings and cable glands***

## CATALOGO INOX - *STAINLESS STEEL CATALOGUE*

**Guaine, raccordi, tubi e accessori in acciaio inox**
***Conduits, fittings, pipes and accessories made of stainless steel***

## CATALOGO COMPATIBILITA' ELETTROMAGNETICA - *EMC CATALOGUE*




**Treccia, raccordo, adattatore, boccola**
***Braid, fitting, adapter, ring***

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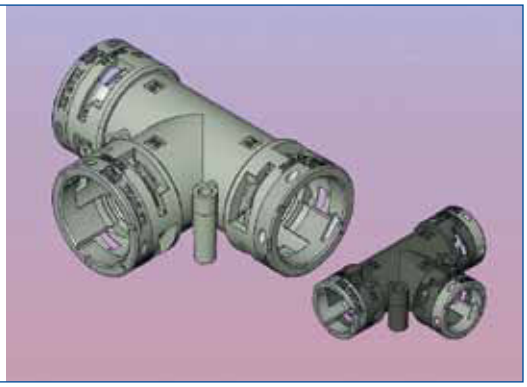

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