



**SMART**  
*conduit*

*PRODUCT  
CATALOGUE*

**Valid from 05/2017**  
(127e10)

2017



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**PRICE VALIDITY:** 05/2017

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# INDEX

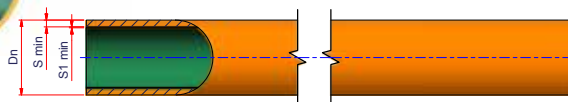
|                                                                      |           |
|----------------------------------------------------------------------|-----------|
| <b>PIPE.....</b>                                                     | <b>2</b>  |
| CONDUIT PIPE.....                                                    | 2         |
| <b>ENTRY BOOTS/PENETRATION FITTINGS .....</b>                        | <b>2</b>  |
| PENETRATION FITTING.....                                             | 2         |
| PENETRATION FITTING - ELECTROFUSION.....                             | 3         |
| ENTRY BOOT.....                                                      | 3         |
| PENETRATION FITTING - ELECTROFUSION.....                             | 3         |
| PENETRATION FITTING FOR SW FIBERGLASS SUMPS - BRASS FLANGE.....      | 4         |
| PENETRATION FITTING FOR SW FIBERGLASS SUMPS - ALUMINIUM FLANGE ..... | 4         |
| <b>ELECTROFUSION FITTINGS .....</b>                                  | <b>5</b>  |
| STRAIGHT CONNECTOR (COUPLER).....                                    | 5         |
| ELBOW 90°.....                                                       | 5         |
| LONG ELECTROFUSION COUPLER .....                                     | 5         |
| REDUCER.....                                                         | 6         |
| EARTHING END CAP .....                                               | 6         |
| <b>BUTT FUSION FITTINGS .....</b>                                    | <b>7</b>  |
| ADAPTER MALE NICKEL PLATED .....                                     | 7         |
| ADAPTER FEMALE NICKEL PLATED .....                                   | 7         |
| <b>COMPRESSION FITTINGS.....</b>                                     | <b>8</b>  |
| STRAIGHT CONNECTOR (COUPLER).....                                    | 8         |
| ELBOW 90°.....                                                       | 8         |
| END CAP.....                                                         | 8         |
| ADAPTER MALE .....                                                   | 9         |
| ADAPTER FEMALE .....                                                 | 9         |
| ELBOW MALE 90°.....                                                  | 9         |
| ELBOW FEMALE 90° .....                                               | 10        |
| <b>PIT, MANHOLE AND TOOLING.....</b>                                 | <b>11</b> |
| ELECTRICAL PIT .....                                                 | 11        |
| MANHOLE COVER WITH CAM LOCK - RAINTIGHT.....                         | 11        |
| SCRAPER FOR CEP7575 SPIGOTS.....                                     | 11        |
| <b>WELDING UNITS .....</b>                                           | <b>12</b> |
| <b>ELECTROWELDING ASSEMBLY INSTRUCTIONS.....</b>                     | <b>15</b> |
| <b>COMPRESSION FITTING ASSEMBLY INSTRUCTIONS.....</b>                | <b>16</b> |
| <b>CERTIFICATES .....</b>                                            | <b>18</b> |
| <b>GENERAL SALES TERMS.....</b>                                      | <b>19</b> |

N.B.: All measures are in millimetres unless otherwise mentioned  
N.B.: Toutes les mesures sont en millimètres sauf indication contraire  
N.B.: Todas las medidas están en milímetros a menos que se indique lo contrario

N.B.: Alle Maßangaben erfolgen, sofern nicht anders angegeben, in Millimetern  
N.B.: Todas as medidas estão em milímetros a menos que indicado de outra forma  
N.B.: Tutte le misure sono espresse in millimetri salvo diversa indicazione



## PIPE



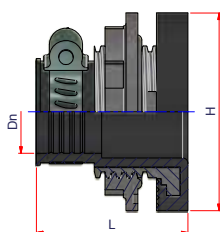
TUYAUTERIE CONDUIT  
TUBERÍA CONDUIT  
CONDUIT ROHRSYSTEM  
TUBO CONDUIT  
TUBAZIONE CONDUIT

### CONDUIT PIPE

| Code           | Nominal OD in. | Dn | S min | S1 min | Weight (kg/m) |
|----------------|----------------|----|-------|--------|---------------|
| 19TCON32R100   | 1"             | 32 | 2,4   | 0,4    | 0,28          |
| 19TCON40R100 * | 1 ¼"           | 40 | 3,0   | 0,4    | 0,42          |
| 19TCON50R100 * | 1 ½"           | 50 | 3,2   | 0,4    | 0,62          |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponible a pedido - disponibile su richiesta

## ENTRY BOOTS/PENETRATION FITTINGS



PRESSE-ÉTOUPE  
PASAMUROS  
ROHRDURCHFÜHRUNG  
BOOT EM BORRACHA  
PREMI-STOPPA

### PENETRATION FITTING

| Code    | Nominal ID in. | Dn | L  | H  |
|---------|----------------|----|----|----|
| 19CEB32 | 1"             | 32 | 58 | 75 |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponible a pedido - disponibile su richiesta

**NOTE:** Use code STAZ51 for sump drilling and code 00CHIAVE32 for ring nut tightening

**AVERTISSEMENT:** Utiliser le code STAZ51 pour le forage de la chambre et le code 00CHIAVE32 pour le serrage de la bague

**NOTA:** Utilizar el código STAZ51 para la perforación de la arqueta y el código 00CHIAVE32 para apretar la tuerca anular

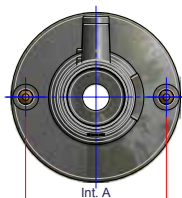
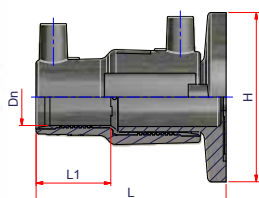
**ACHTUNG:** Benutzen Sie STAZ51 für die Bohrung dem Tankschacht und 00CHIAVE32 für Ringmutter Anziehen

**NOTA:** Use o código STAZ51 para a perfuração do poço de inspecção e o código 00CHIAVE32 para o aperto da porca

**NOTA BENE:** Utilizzare il codice STAZ51 per la foratura del pozzetto e il codice 00CHIAVE32 per il serraggio della ghiera



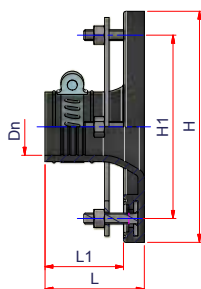
## ENTRY BOOTS/PENETRATION FITTINGS



PRESSE-ÉTOUPE ELECTROSOUDABLE  
PASAMUROS ELECTROSOLDABLE  
ELEKTROSCHWEISSBARE ROHRDURCHFÜHRUNG  
BOOT DE ELETROFUSÃO  
PREMI-STOPPA ELETROSALDABILE

### PENETRATION FITTING - ELECTROFUSION

| Code     | Nominal ID in. | Dn | L1 | L   | H  | Int. A |
|----------|----------------|----|----|-----|----|--------|
| 19CEBE32 | 1"             | 32 | 43 | 110 | 98 | 81,5   |

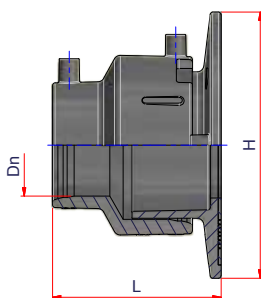


PRESSE-ÉTOUPE  
PASAMUROS  
ROHRDURCHFÜHRUNG  
BOOT EM BORRACHA  
PREMI-STOPPA

### ENTRY BOOT

| Code      | Nominal ID in. | Dn | L1   | L  | H1    | H   | Holes |
|-----------|----------------|----|------|----|-------|-----|-------|
| 19SEB32   | 1"             | 32 | 43,5 | 55 | 101,5 | 128 | 4     |
| 19SEB40 * | 1 ¼"           | 40 | 43,5 | 55 | 101,5 | 128 | 4     |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta



PRESSE-ÉTOUPE ELECTROSOUDABLE  
PASAMUROS ELECTROSOLDABLE  
ELEKTROSCHWEISSBARE ROHRDURCHFÜHRUNG  
BOOT DE ELETROFUSÃO  
PREMI-STOPPA ELETROSALDABILE

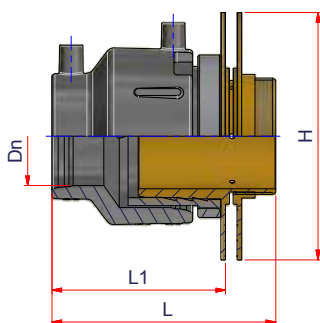
### PENETRATION FITTING - ELECTROFUSION

| Code       | Nominal ID in. | Dn | L     | H   |
|------------|----------------|----|-------|-----|
| 19SEBE32   | 1"             | 32 | 150   | 170 |
| 19SEBE40 * | 1 ¼"           | 40 | 148,5 | 170 |
| 19SEBE50 * | 1 ½"           | 50 | 148,5 | 170 |
| 19SEBE63 * | 2"             | 63 | 112   | 200 |

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## ENTRY BOOTS/PENETRATION FITTINGS



PRESSE-ÉTOUPE POUR CHAMBRE D'ACCES EN FIBRE DE VERRE SIMPLE ENVELOPPE - BRIDE DE LAITON

PASAMUROS PARA ARQUETAS DE FIBRA DE VIDRIO SIMPLE PARED - BRIDA DE LATÓN

EINWANDIGE-ROHRDURCHFÜHRUNG FÜR GFK SCHÄCHTE - FLANSCH AUS MESSING

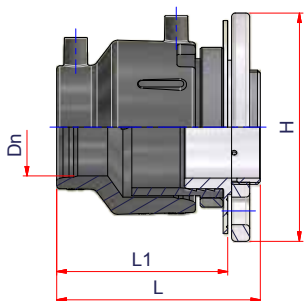
BOOT PARA SUMP EM FIBRA DE VIDRO DE PAREDE SIMPLES - FLANGE DE LATÃO

PREMISTOPPA PER POZZETTI IN FIBRA VETRO SINGOLA PARETE - FLANGIA IN OTTONE

### PENETRATION FITTING FOR SW FIBERGLASS SUMPS - BRASS FLANGE

| Code         | Nominal ID in. | Dn | L1    | L     | H   |
|--------------|----------------|----|-------|-------|-----|
| 19SEBEFM32   | 1"             | 32 | 143   | 175   | 125 |
| 19SEBEFM40 * | 1 ¼"           | 40 | 141   | 173   | 125 |
| 19SEBEFM50 * | 1 ½"           | 50 | 168   | 200,5 | 160 |
| 19SEBEFM63 * | 2"             | 63 | 112,3 | 144,8 | 160 |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta



PRESSE-ÉTOUPE POUR CHAMBRE D'ACCES EN FIBRE DE VERRE SIMPLE ENVELOPPE - BRIDE DE ALUMINIUM

PASAMUROS PARA ARQUETAS DE FIBRA DE VIDRIO SIMPLE PARED - BRIDA DE ALUMINIO

EINWANDIGE-ROHRDURCHFÜHRUNG FÜR GFK SCHÄCHTE - FLANSCH AUS ALUMINIUM

BOOT PARA SUMP EM FIBRA DE VIDRO PAREDE SIMPLE - FLANGE DE ALUMINIO

PREMISTOPPA PER POZZETTI IN FIBRA VETRO SINGOLA PARETE - FLANGIA IN ALLUMINIO

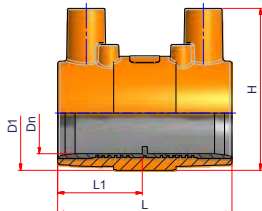
### PENETRATION FITTING FOR SW FIBERGLASS SUMPS - ALUMINIUM FLANGE

| Code          | Nominal ID in. | Dn | L1    | L     | H   |
|---------------|----------------|----|-------|-------|-----|
| 19SEBEFM32A   | 1"             | 32 | 141   | 162   | 120 |
| 19SEBEFM40A * | 1 ¼"           | 40 | 141.5 | 163   | 120 |
| 19SEBEFM50A * | 1 ½"           | 50 | 168   | 200.5 | 160 |
| 19SEBEFM63A * | 2"             | 63 | 112.3 | 133.8 | 150 |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta



## ELECTROFUSION FITTINGS

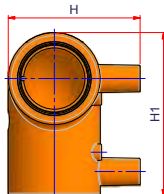
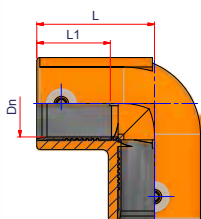


MANCHON ELECTROSOUDABLE  
MANGUITO ELECTROSOLDABLE  
ELEKTROSCHWEISSBARE MUFFE  
UNIÃO ELETROFUSÃO  
MANICOTTO ELETTROSALDABILE

### STRAIGHT CONNECTOR (COUPLER)

| Code      | Nominal ID in. | Dn | D1 | L1 | L  | H  |
|-----------|----------------|----|----|----|----|----|
| 19CME32   | 1"             | 32 | 46 | 34 | 70 | 65 |
| 19CME40 * | 1 1/4"         | 40 | 55 | 41 | 84 | 75 |
| 19CME50 * | 1 1/2"         | 50 | 67 | 42 | 87 | 86 |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta

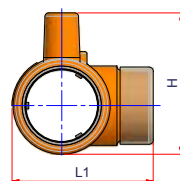
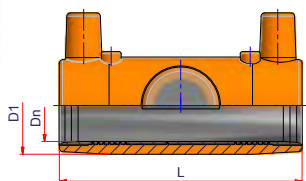


COUDE À 90° ELECTROSOUDABLE  
CODO 90° ELECTROSOLDABLE  
ELEKTROSCHWEISSBARER WINKEL 90°  
COTOVELO 90° ELETROFUSÃO  
CURVA A 90° ELETTROSALDABILE

### ELBOW 90°

| Code      | Nominal ID in. | Dn | L1 | L  | H1   | H  |
|-----------|----------------|----|----|----|------|----|
| 19CGE32   | 1"             | 32 | 35 | 57 | 79   | 65 |
| 19CGE40 * | 1 1/4"         | 40 | 41 | 65 | 91,5 | 73 |
| 19CGE50 * | 1 1/2"         | 50 | 47 | 77 | 107  | 84 |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta



MANCHON ELECTROSOUDABLE LONG - ARRÊT VEPEUR  
MANGUITO ELECTROSOLDABLE LARGO - PARADA VAPOR  
ELEKTROSCHWEISSBARE LANGE MUFFE - DAMPFSTOPP  
UNIÃO ELETROFUSÃO LONGA - PARADA VAPOR  
MANICOTTO ELETTROSALDABILE LUNGO - BARRIERA VAPORE

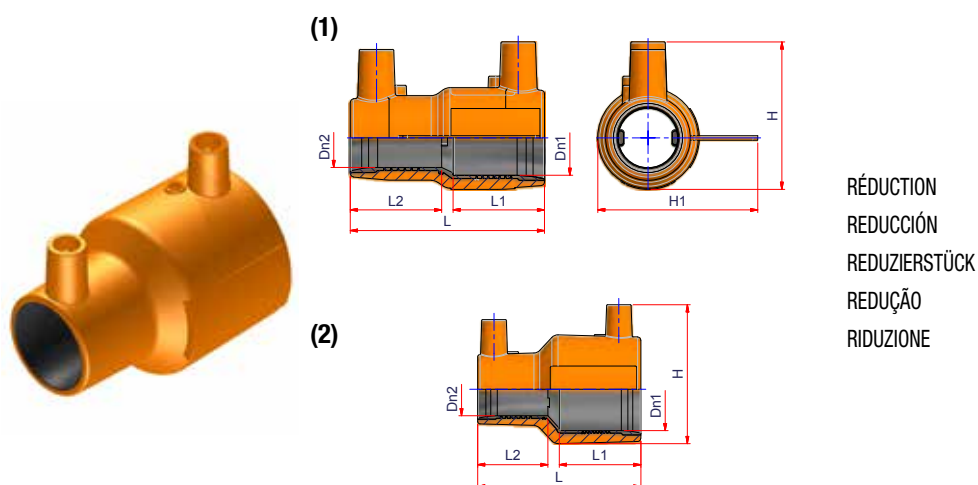
### LONG ELECTROFUSION COUPLER VAPOUR STOP \*

| Code     | Nominal ID in. | Dn | D1 | L1  | L  | H  |
|----------|----------------|----|----|-----|----|----|
| 19CMEL32 | 1"             | 32 | 44 | 110 | 64 | 64 |

\* refer to instructions - se reporter aux instructions - consultar las instrucciones - die Anweisungen sehen - referem-se a instruções - consultare le istruzioni

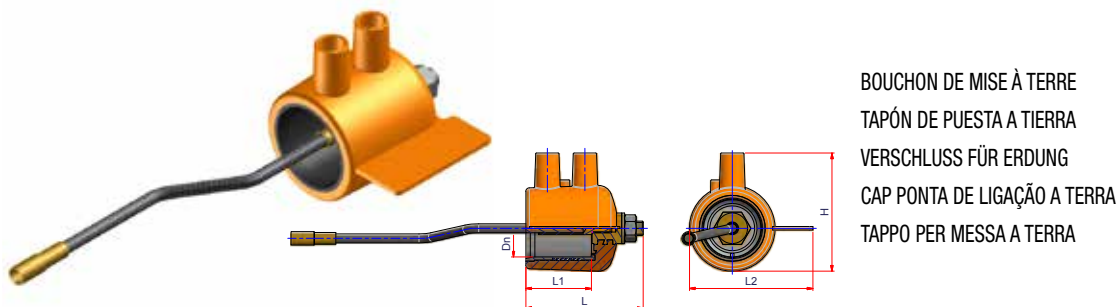


## ELECTROFUSION FITTINGS



### REDUCER

| Code                      | Nominal ID in. | Dn1 | Dn2 | L1   | L2   | L    | H1 | H    |
|---------------------------|----------------|-----|-----|------|------|------|----|------|
| 19CRDE3225 <sup>(1)</sup> | 1" x 1/2"      | 32  | 25  | 39,5 | 39,5 | 84,5 | 70 | 64,5 |
| 19CRDE5032 <sup>(2)</sup> | 1 1/2" x 1"    | 50  | 32  | 49,5 | 41,5 | 100  | -  | 85   |

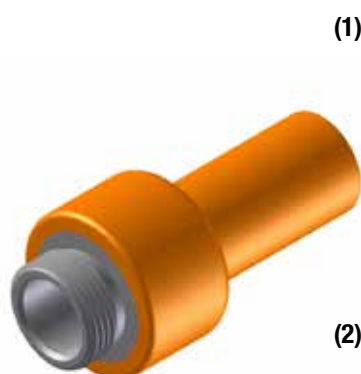


### EARTHING END CAP

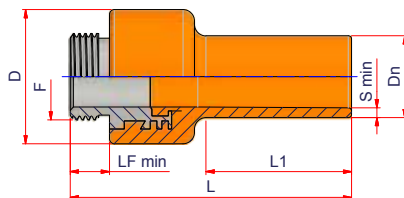
| Code     | Nominal ID in. | Dn | L1 | L2 | L    | H  |
|----------|----------------|----|----|----|------|----|
| 19CETH32 | 1"             | 32 | 36 | 67 | 65,5 | 65 |



## BUTT FUSION FITTINGS



(1)



ADAPTATEUR MÂLE NICKELÉ

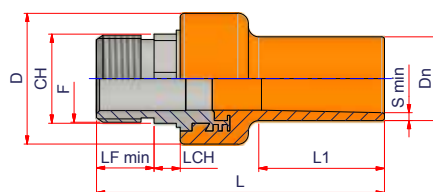
ADAPTADOR MACHO NIQUELADO

GEWINDEÜBERGANG MIT AUSSERGEWINDE - NICKEL LEGIERUNG

ADAPTADOR MACHO DE PAREDE SIMPLES NIQUELADO

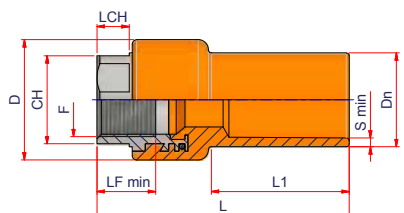
ADATTATORE MASCHIO NICHELATO

(2)



### ADAPTER MALE NICKEL PLATED

| Code                      | Nominal OD in. | Dn | S min | F    | LF min | D  | L1   | L   | CH | LCH |
|---------------------------|----------------|----|-------|------|--------|----|------|-----|----|-----|
| 19CAM2534P <sup>(1)</sup> | 3/4" x 3/4"    | 25 | 3,0   | 3/4" | 14,5   | 41 | 44,5 | 86  | -  | -   |
| 19CAM321P <sup>(2)</sup>  | 1" x 1"        | 32 | 3,0   | 1"   | 16,8   | 50 | 48   | 110 | 34 | 10  |



ADAPTATEUR FEMELLE NICKELÉ

ADAPTADOR HEMBRA NIQUELADO

GEWINDEÜBERGANG MIT INNENGEWINDE - NICKEL LEGIERUNG

ADAPTADOR FÊMEA NIQUELADO

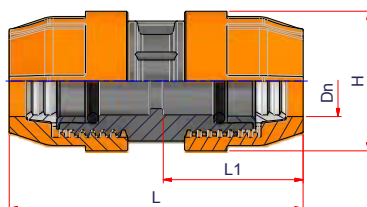
ADATTATORE FEMMINA NICHELATO

### ADAPTER FEMALE NICKEL PLATED

| Code       | Nominal OD in. | Dn | S min | F         | LF min | D  | L1 | L  | CH | LCH |
|------------|----------------|----|-------|-----------|--------|----|----|----|----|-----|
| 19CAF32M20 | 1"             | 32 | 3,0   | M20 x 1.5 | 18     | 41 | 47 | 85 | 25 | 11  |
| 19CAF32M25 | 1"             | 32 | 3,0   | M25 x 1.5 | 20     | 41 | 47 | 86 | 30 | 12  |



## COMPRESSION FITTINGS

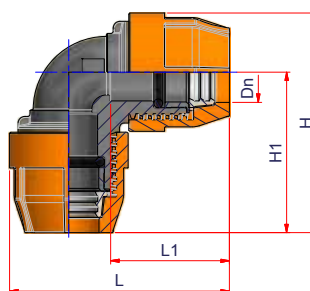


MANCHON  
MANGUITO  
MUFFE  
UNIÃO  
MANICOTTO

### STRAIGHT CONNECTOR (COUPLER)

| Code     | Nominal ID in. | Dn | L1   | L     | H    |
|----------|----------------|----|------|-------|------|
| 19CMP32  | 1"             | 32 | 62.5 | 138   | 64.5 |
| 19CMP40* | 1 ¼"           | 40 | 80   | 167.5 | 83.5 |
| 19CMP50* | 1 ½"           | 50 | 90   | 184   | 96   |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta

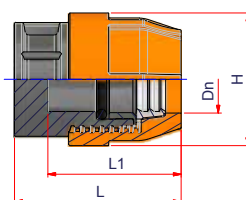


COUDE 90°  
CODO 90°  
WINKEL 90°  
COTOVELO 90°  
CURVA A 90°

### ELBOW 90°

| Code      | Nominal ID in. | Dn | L1   | L   | H1  | H   |
|-----------|----------------|----|------|-----|-----|-----|
| 19CGP32   | 1"             | 32 | 62,5 | 120 | 86  | 120 |
| 19CGP40 * | 1 ¼"           | 40 | 80   | 152 | 109 | 152 |
| 19CGP50 * | 1 ½"           | 50 | 90   | 168 | 122 | 168 |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta



BOUCHON  
TAPÓN  
VERSCHLUSS  
CAP PONTA  
TAPPO

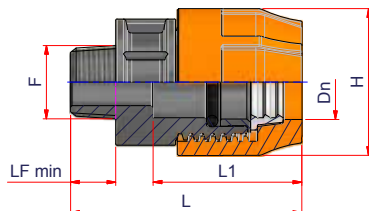
### END CAP

| Code      | Nominal ID in. | Dn | L1   | L    | H    |
|-----------|----------------|----|------|------|------|
| 19CECP32  | 1"             | 32 | 62,5 | 83   | 54,5 |
| 19CECP40* | 1 ¼"           | 40 | 80   | 89,5 | 83,5 |
| 19CECP50* | 1 ½"           | 50 | 90   | 97   | 96   |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta



## COMPRESSION FITTINGS

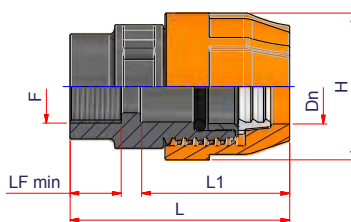


ADAPTATEUR MÂLE  
ADAPTADOR MACHO  
GEWINDEÜBERGANG MIT AUSSERGEWINDE  
ADAPTADOR MACHO  
ADATTATORE MASCHIO

### ADAPTER MALE

| Code         | Nominal ID in. | Dn | F    | LF min | L1   | L     | H    |
|--------------|----------------|----|------|--------|------|-------|------|
| 19CRMP321    | 1" x 1"        | 32 | 1"   | 19,1   | 62,5 | 102   | 64,5 |
| 19CRMP40114* | 1 ¼" x 1 ¼"    | 40 | 1 ¼" | 21,4   | 80   | 111   | 83,5 |
| 19CRMP50112* | 1 ½" x 1 ½"    | 50 | 1 ½" | 21,4   | 90   | 118,5 | 96   |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta

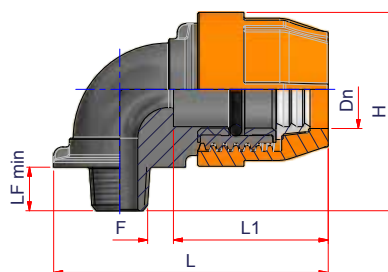


ADAPTATEUR FEMELLE  
ADAPTADOR HEMBRA  
GEWINDEÜBERGANG MIT INNENGEWINDE  
ADAPTADOR FÊMEA  
ADATTATORE FEMMINA

### ADAPTER FEMALE

| Code         | Nominal ID in. | Dn | F    | LF min | L1   | L     | H    |
|--------------|----------------|----|------|--------|------|-------|------|
| 19CRFP321    | 1" x 1"        | 32 | 1"   | 20     | 62,5 | 88    | 64,5 |
| 19CRFP40114* | 1 ¼" x 1 ¼"    | 40 | 1 ¼" | 22,5   | 80   | 92,5  | 83,5 |
| 19CRFP50112* | 1 ½" x 1 ½"    | 50 | 1 ½" | 22,5   | 90   | 113,5 | 96   |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta



COUDE MALE 90°  
CODO MACHO 90°  
WINKEL MIT AUSSERGEWINDE 90°  
COTOVELO MACHO 90°  
CURVA MASCHIO A 90°

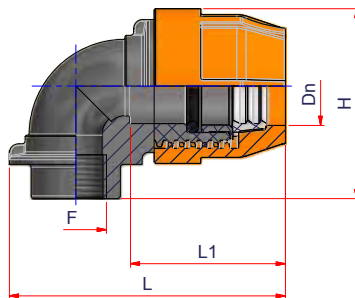
### ELBOW MALE 90°

| Code          | Nominal ID in. | Dn | F    | LF min | L1   | L     | H     |
|---------------|----------------|----|------|--------|------|-------|-------|
| 19CGMP321     | 1" x 1"        | 32 | 1"   | 19,1   | 62,5 | 114   | 84    |
| 19CGMP40114 * | 1 ¼" x 1 ¼"    | 40 | 1 ¼" | 21,4   | 80   | 128,5 | 103   |
| 19CGMP50112 * | 1 ½" x 1 ½"    | 50 | 1 ½" | 21,4   | 90   | 150   | 117,5 |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta



## COMPRESSION FITTINGS



COUDE FEMELLE 90°  
CODO HEMBRA 90°  
WINKEL MIT INNENGEWINDE 90°  
COTOVELO FÊMEA 90°  
CURVA FEMMINA A 90°

### ELBOW FEMALE 90°

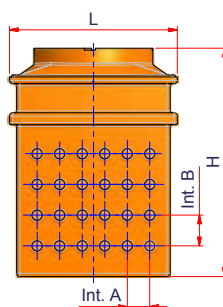
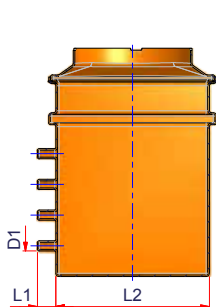
| Code          | Nominal<br>OD in. | Dn | F    | L1   | L     | H     |
|---------------|-------------------|----|------|------|-------|-------|
| 19CGFP321     | 1" x 1"           | 32 | 1"   | 62,5 | 105,5 | 79,5  |
| 19CGFP40114 * | 1 ¼" x 1 ¼"       | 40 | 1 ¼" | 80   | 128,5 | 95    |
| 19CGFP50112 * | 1 ½" x 1 ½"       | 50 | 1 ½" | 90   | 150   | 109,5 |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta





## PIT, MANHOLE AND TOOLING



BAC ELECTRIQUE  
TANQUE ELECTRICO  
ELEKTRISCHER SCHACHT  
SUMP ELECTRICO  
POZZETTO ELETTRICO

### ELECTRICAL PIT

| Code       | D1 | L1 | L2  | L   | Int. A | Int. B | H    |
|------------|----|----|-----|-----|--------|--------|------|
| 19CEPK7575 | 50 | 90 | 750 | 820 | 110    | 150    | 1115 |

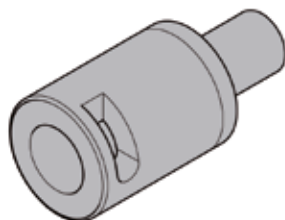


TAMPON DE PISTE HYDROFUGÉ EN MATÉRIAU COMPOSITE AVEC VERROU  
CAM LOCK - AVEC OU SANS TAMPONET  
TAPA PARA PASO DE HOMBRE IMPERMEABLE DE MATERIAL COMPUESTO  
CON CIERRE CAM LOCK - CON O SIN TAPON CENTRAL  
WASSERDICHTER SCHACHTDECKEL UND CAM LOCK-VERRIEGELUNG - MIT  
ODER OHNE MITTIGEN VERSCHLUSS  
TAMPA PARA POÇO DE INSPECÇÃO IMPERMEÁVEL EM MATERIAL  
COMPÓSITO COM FECHAMENTO CAM LOCK - COM OU SEM TAMPA CENTRAL  
CHIUSINO PER PASSO D'UOMO IMPERMEABILE IN MATERIALE COMPOSITO  
CON SERRATURA CAM LOCK - CON O SENZA TAPPO CENTRALE

### MANHOLE COVER WITH CAM LOCK - RAINIGHT

| Code              | Nominal<br>OD in. | Nominal<br>OD mm. | Package<br>(pcs) | Notes                                                                                                                                                                                                                                                                          |
|-------------------|-------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19STAM24WTCLP (*) | 24"               | 670               | 1                | cover, frame, seal, plug and lock/tampon, cadre, joint, bouchon et verrou/<br>tapa, marco, junta, tapón y cierre/Schachtdeckel, Rahmen, Dichtung,<br>Kappe und Verriegelung/cobertura, quadro, selo, plugue e fechamento/<br>coperchio, telaio, guarnizione, tappo e serratura |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta



GRATTEUR POUR ERGOTS DU CEP7575  
RASCADOR PARA ESPIGAS DEL CEP7575  
SCHABER FÜR ZAPFEN DEM CEP7575  
RASPADOR PARA ESPICHOS DO CEP7575  
RASCHIETTO PER CODOLI DEL CEP7575

### SCRAPER FOR CEP7575 SPIGOTS

| Code       | Nominal<br>OD in. | Ø<br>mm. | Package<br>(pcs) |
|------------|-------------------|----------|------------------|
| 19CEPRAT50 | 1 1/2"            | 50       | 1                |

\* available upon request - disponible sur requête - disponible a pedido - verfügbar auf Anfrage - disponível a pedido - disponibile su richiesta



## WELDING UNITS



### BASIC EQUIPMENT SUPPLIED WITH THE WELDING UNIT:

- User's handbook on external support and quick guide on paper
- External support USB stick (4GB) for data download (welding report, traceability and pressure test) - **00USBKEY**
- Shipping box
- Barcode scanner
- Adapters with 4,7 mm pins

### ADDITIONAL EQUIPMENT AND SPARES:

- **00USBKEY**: External support USB stick (4GB) for data download (welding report, traceability, GPS coordinates and pressure test)
- **00SENS**: Pressure test unit
- **00BCSCAN**: Barcode scanner

| Code           | Voltage | Welding Range<br>Ø |
|----------------|---------|--------------------|
| 19SSEL8404/220 | 230 V   | 20÷630             |

## AUTOMATIC MULTIFUNCTION WELDING UNIT WITH BARCODE SCANNER

### TECHNICAL CHARACTERISTICS:

Conforms with CE requirements  
 Conforms with Standard UNI 10566 – MULTIFUNCTION type  
 Barcode reader conforming with Standard ISO 13950 and manual setting of time and voltage  
 Illuminated display with 4 lines, 20 characters each  
 Memory for 10.000 welding cycles  
 8 Memories with 500 parameters each for pressure tests  
 Fitting working range up to 100 Amp. maximum peak  
 Ambient temperature sensor  
 Power supply: 230V /115V E 50Hz/60Hz  
 Maximum power: 2500 VA  
 Output voltage: from 5 to 42 V  
 Power cable: L= 4 m  
 Welding cable: L= 4 m  
 Connectors - 4 mm (art. 00S8305) with adaptors for 4,7mm (00S8203)  
 Dimensions: 340x450xH220 mm  
 Weight: 25,2 kg  
 Degree of protection: IP 54  
 Working temperature: from -18° to + 55°C



### BASIC EQUIPMENT SUPPLIED WITH THE WELDING UNIT:

- User's handbook on external support and quick guide on paper
- External support USB stick (4GB) for data download (welding report, traceability and pressure test) - **00USBKEY**
- Shipping box
- Barcode scanner
- Adapters with 4,7 mm pins

### ADDITIONAL EQUIPMENT AND SPARES:

- **00USBKEY**: External support USB stick (4GB) for data download (welding report, traceability, GPS coordinates and pressure test)
- **00SENS**: Pressure test unit
- **00BCSCAN**: Barcode scanner

| Code            | Voltage | Welding Range<br>Ø |
|-----------------|---------|--------------------|
| 19SSEL8404L/220 | 230 V   | 20÷160             |

## AUTOMATIC MULTIFUNCTION WELDING UNIT WITH BARCODE SCANNER - **LIGHT VERSION**

### TECHNICAL CHARACTERISTICS:

Conforms with CE requirements  
 Conforms with Standard UNI 10566 – MULTIFUNCTION type  
 Barcode reader conforming with Standard ISO 13950 and manual setting of time and voltage  
 Illuminated display with 4 lines, 20 characters each  
 Memory for 10.000 welding cycles  
 8 Memories with 500 parameters each for pressure tests  
 Fitting working range up to 40 Amp. maximum peak  
 Ambient temperature sensor  
 Power supply: 230V/115V E 50Hz/60Hz  
 Maximum power: 1000 VA  
 Output voltage: from 5 to 42 V  
 Power cable: L= 4 m  
 Welding cable: L= 4 m  
 Connectors - 4 mm (art. 00S8305) with adaptors for 4,7mm (00S8203)  
 Dimensions: 310x350xH170 mm  
 Weight: 13 kg  
 Degree of protection: IP 54  
 Working temperature: from -18° to + 55°C



## WELDING UNITS



### BASIC EQUIPMENT SUPPLIED WITH THE WELDING UNIT:

- User's handbook on external support and quick guide on paper
- External support USB stick (4GB) for data download (welding report, traceability and pressure test) - **00USBKEY**
- Integrated shipping box
- Barcode scanner
- Adapters with 4,7 mm pins

### ADDITIONAL EQUIPMENT AND SPARES:

- **00USBKEY:** External support USB stick (4GB) for data download (welding report, traceability, GPS coordinates and pressure test)
- **00SENS:** Pressure test unit
- **00BCSCAN:** Barcode scanner

| Code            | Voltage | Welding Range<br>Ø |
|-----------------|---------|--------------------|
| 19SSEL8404P/220 | 230 V   | 20÷400             |

### AUTOMATIC MULTIFUNCTION WELDING UNIT INCORPORATED IN SUITCASE WITH BARCODE SCANNER

#### TECHNICAL CHARACTERISTICS:

Conforms with CE requirements  
 Conforms with Standard UNI 10566 – MULTIFUNCTION type  
 Barcode reader conforming with Standard ISO 13950 and manual setting of time and voltage  
 Illuminated display with 4 lines, 20 characters each  
 Memory for 10.000 welding cycles  
 8 Memories with 500 parameters each for pressure tests  
 Fitting working range up to 80 Amp. maximum peak  
 Ambient temperature sensor  
 Power supply: 230V/115V E 50Hz/60Hz  
 Maximum power: 2000 VA  
 Minimum power supply: 4 Kw  
 Output voltage: from 5 to 42 V  
 Power cable: L= 4 m  
 Welding cable: L= 4 m  
 Connectors - 4 mm (art. 00S8305) with adaptors for 4,7mm (00S8203)  
 Dimensions: 510x436xH217 mm  
 Weight: 24 kg  
 Degree of protection: IP 54  
 Working temperature: from -18° to + 55°C



Nupi Welding Cloud



### BASIC EQUIPMENT SUPPLIED WITH THE WELDING UNIT:

- User's handbook on external support and quick guide on paper
- External support USB stick (4GB) for data download (welding report, traceability and pressure test) - **00USBKEY**
- Integrated shipping box
- Barcode scanner
- Adapters with 4,7 mm pins

### ADDITIONAL EQUIPMENT AND SPARES:

- **00USBKEY:** External support USB stick (4GB) for data download (welding report, traceability, GPS coordinates and pressure test)
- **00SENS:** Pressure test unit
- **00BCSCAN:** Barcode scanner

| Code            | Voltage | Welding Range<br>Ø |
|-----------------|---------|--------------------|
| 19SMARTWELD/220 | 230 V   | 20÷400             |

### AUTOMATIC MULTIFUNCTION WELDING UNIT INCORPORATED IN SUITCASE WITH BARCODE SCANNER

#### TECHNICAL CHARACTERISTICS:

Conforms with CE requirements  
 Conforms with Standard UNI 10566 – MULTIFUNCTION type  
 Barcode reader conforming with Standard ISO 13950 and manual setting of time and voltage  
 Illuminated display with 4 lines, 20 characters each  
 Memory for 10.000 welding cycles  
 8 Memories with 500 parameters each for pressure tests  
 Fitting working range up to 80 Amp. maximum peak  
 Ambient temperature sensor  
 Power supply: 230V/115V E 50Hz/60Hz  
 Maximum power: 2000 VA  
 Minimum power supply: 4 Kw  
 Output voltage: from 5 to 42 V  
 Power cable: L= 4 m  
 Welding cable: L= 4 m  
 Connectors - 4 mm (art. 00S8305) with adaptors for 4,7mm (00S8203)  
 Dimensions: 510x436xH217 mm  
 Weight: 24 kg  
 Degree of protection: IP 54  
 Working temperature: from -18° to + 55°C



## WELDING UNITS



### BASIC EQUIPMENT SUPPLIED WITH THE WELDING UNIT:

- User's handbook on external support and quick guide on paper
- External support USB stick (4GB) for data download (welding report, traceability and pressure test) - **00USBKEY**
- Integrated shipping box
- Barcode scanner
- Adapters with 4,7 mm pins

### ADDITIONAL EQUIPMENT AND SPARES:

- **00USBKEY**: External support USB stick (4GB) for data download (welding report, traceability, GPS coordinates and pressure test)
- **00SENS**: Pressure test unit
- **00BCSCAN**: Barcode scanner

| Code             | Voltage | Welding Range<br>Ø |
|------------------|---------|--------------------|
| 19SSEL8404LP/220 | 230 V   | 20÷160             |

## AUTOMATIC MULTIFUNCTION WELDING UNIT INCORPORATED IN SUITCASE WITH BARCODE SCANNER - **LIGHT VERSION**

### TECHNICAL CHARACTERISTICS:

Conforms with CE requirements  
 Conforms with Standard UNI 10566 – MULTIFUNCTION type  
 Barcode reader conforming with Standard ISO 13950 and manual setting of time and voltage  
 Illuminated display with 4 lines, 20 characters each  
 Memory for 10.000 welding cycles  
 8 Memories with 500 parameters each for pressure tests  
 Fitting working range up to 40 Amp. maximum peak  
 Ambient temperature sensor  
 Power supply: 230V/115V E 50Hz/60Hz  
 Maximum power: 1500 VA  
 Minimum power supply: 3 Kw  
 Output voltage: from 5 to 42 V  
 Power cable: L= 4 m  
 Welding cable: L= 4 m  
 Connectors - 4 mm (art. 00S8305) with adaptors for 4,7mm (00S8203)  
 Dimensions: 510x410xH200 mm  
 Weight: 16 kg  
 Degree of protection: IP 54  
 Working temperature: from -18° to + 55°C



### BASIC EQUIPMENT SUPPLIED WITH THE WELDING UNIT:

- User's handbook on external support and quick guide on paper
- External support USB stick (4GB) for data download (welding report, traceability and pressure test) - **00USBKEY**
- Integrated shipping box
- Barcode scanner
- Adapters with 4,7 mm pins

### ADDITIONAL EQUIPMENT AND SPARES:

- **00USBKEY**: External support USB stick (4GB) for data download (welding report, traceability, GPS coordinates and pressure test)
- **00SENS**: Pressure test unit
- **00BCSCAN**: Barcode scanner

| Code                 | Voltage | Welding Range<br>Ø |
|----------------------|---------|--------------------|
| 19SMARTWELDLIGHT/220 | 230 V   | 20÷160             |

## AUTOMATIC MULTIFUNCTION WELDING UNIT INCORPORATED IN SUITCASE WITH BARCODE SCANNER - **LIGHT VERSION**

### TECHNICAL CHARACTERISTICS:

Conforms with CE requirements  
 Conforms with Standard UNI 10566 – MULTIFUNCTION type  
 Barcode reader conforming with Standard ISO 13950 and manual setting of time and voltage  
 Illuminated display with 4 lines, 20 characters each  
 Memory for 10.000 welding cycles  
 8 Memories with 500 parameters each for pressure tests  
 Fitting working range up to 40 Amp. maximum peak  
 Ambient temperature sensor  
 Power supply: 230V/115V E 50Hz/60Hz  
 Maximum power: 1500 VA  
 Minimum power supply: 3 Kw  
 Output voltage: from 5 to 42 V  
 Power cable: L= 4 m  
 Welding cable: L= 4 m  
 Connectors - 4 mm (art. 00S8305) with adaptors for 4,7mm (00S8203)  
 Dimensions: 510x410xH200 mm  
 Weight: 16 kg  
 Degree of protection: IP 54  
 Working temperature: from -18° to + 55°C



# ELECTROFUSION FITTING ASSEMBLY INSTRUCTIONS

## Tools and equipment necessary for electrofusion assembly:

|   |                                                                                   |                         |   |                                                                                    |                                                                                                 |
|---|-----------------------------------------------------------------------------------|-------------------------|---|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1 |  | Primer<br>OOLID1        | 4 |  | Marker<br>OOMARK                                                                                |
| 2 |  | Soft cloth              | 5 |  | Welding unit<br>19SSEL8404<br>+ manual scraper<br>OORAM1<br>+ revolving scraper<br>OORATOR25075 |
| 3 |  | Conduit cutter<br>OOSCU |   |                                                                                    |                                                                                                 |

## **WARNING: electrofusion welding is not permitted where vapour is present.**

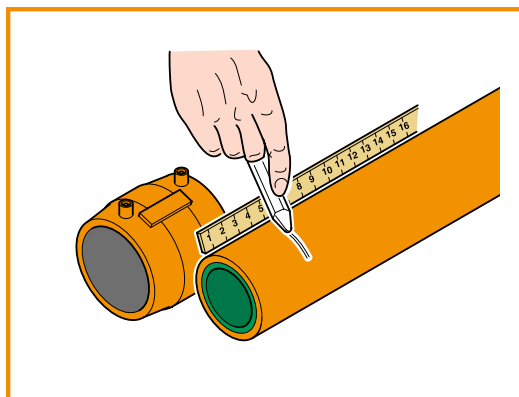
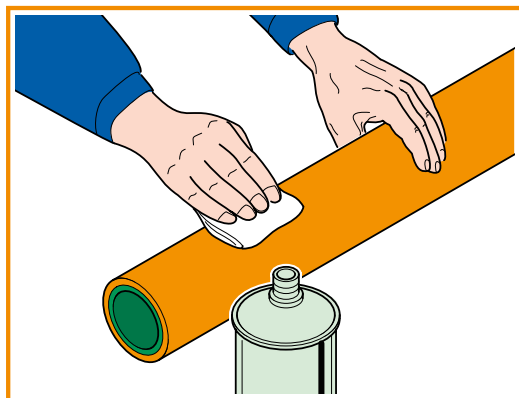
Check that the conduit ends have been protected by the caps.

If this is not the case, remove the first 2" (5 cm) of the conduit. This should be carried out using the correct conduit cutter to ensure a clean, burr-free cut at 90° to the conduit.

## **WARNING: a non-perpendicular cut prevents the complete insertion of the conduit. Consequently, molten material will enter the conduit interior during welding.**

- 1 - Clean the parts to be welded; eliminate any traces of dust, mud, grease or anything else using a clean natural fibre (cotton) cloth. Never, under any circumstances, use sand paper, files, knives or makeshift tools.
- 2 - Mark the insertion length on both conduit ends.
- 3 - Clean the conduit ends and the fitting with recommended cleaning solvent and avoid any contact of the cleaned surfaces to be welded with bare or gloved hands or dirty rags.
- 4 - Insert the coupler, elbow or tee onto the conduit until it reaches its stop point.
- 5 - A loose fit between the conduit and the fitting should be of no concern. The thermal expansion occurring during welding will accommodate tolerances.
- 6 - Insert the other conduit, or spigot fitting, into the electrofusion fitting, check the assembly with the insertion lengths previously marked. It is important to align assemblies. It is also advisable to level the conduits where possible.
- 7 - You can now commence welding. Connect the leads to the electrofusion fitting, swipe the barcode hand scanner on the fitting bar code and proceed according to the instructions shown on the welding unit display.
- 8 - Do not move the assembly till the cooling time is reached.

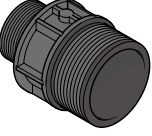
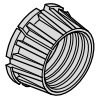
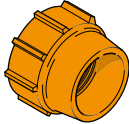
## **Warning: avoid touching the assembly during and immediately after the fusion process as the fitting surface can be very hot.**

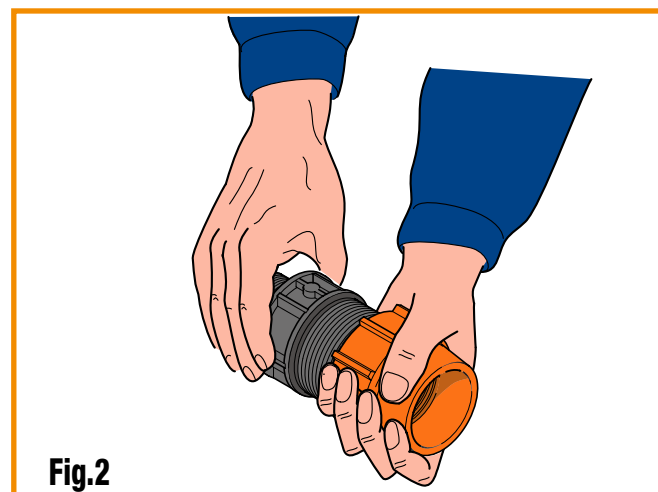
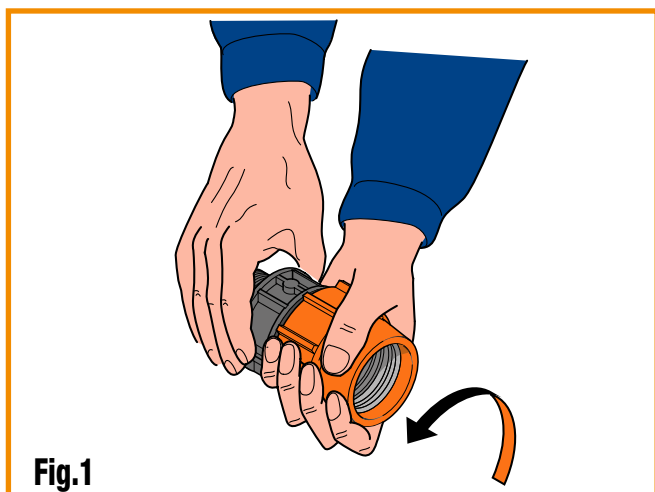
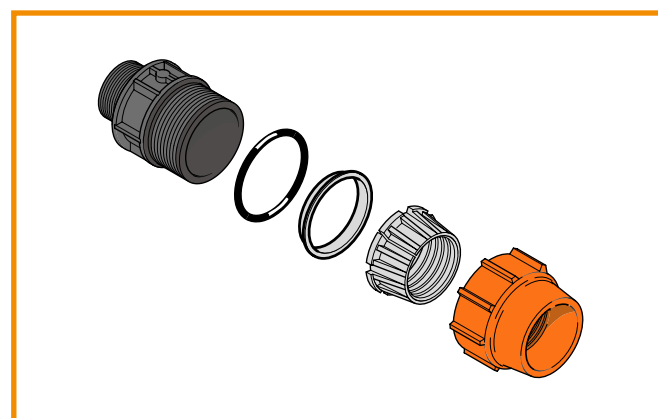




## COMPRESSION FITTING ASSEMBLY INSTRUCTIONS

### Component description:

|   |                                                                                     |                                                     |
|---|-------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1 |    | Wrench<br>00CHIAVE032<br>00CHIAVE040<br>00CHIAVE050 |
| 2 |    | Fitting body                                        |
| 3 |    | O-Ring                                              |
| 4 |  | Thrust ring                                         |
| 5 |  | Circular conduit retainer                           |
| 6 |  | Retaining nut                                       |



Shown here as fully assembled.  
Loosen the retaining nut and the circular conduit retainer.

Shown here as loosened on fitting body.



## COMPRESSION FITTING ASSEMBLY INSTRUCTIONS

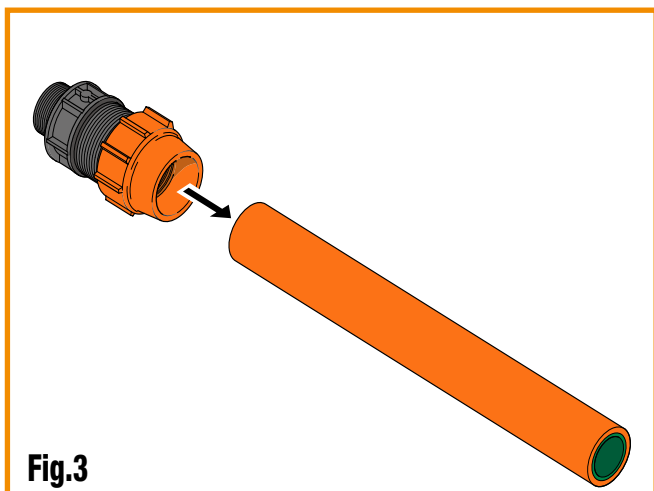


**Fig.3**

Push fitting firmly onto the conduit past the o-ring until it reaches the stop inside the fitting body.

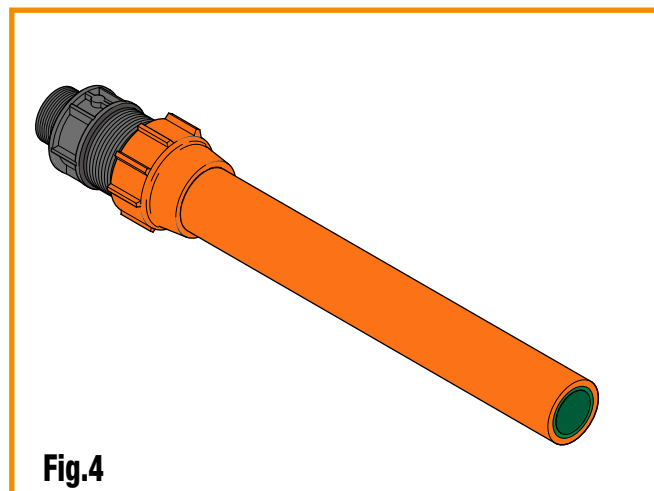


**Fig.4**

Fitting inserted into conduit.

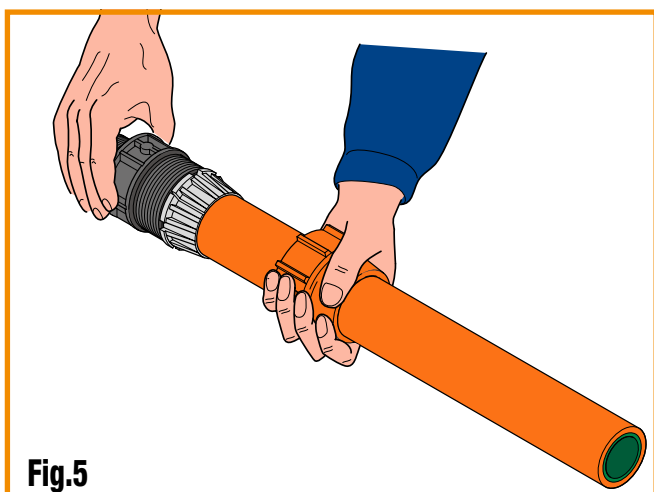


**Fig.5**

Undo the retaining nut completely and slide back along conduit to confirm that the circular conduit retainer is seated on the fitting body.

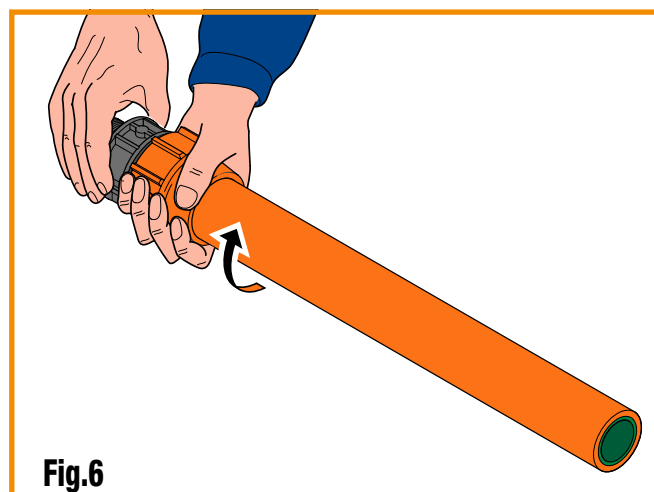


**Fig.6**

Tighten the retaining nut by hand as far as it will go.

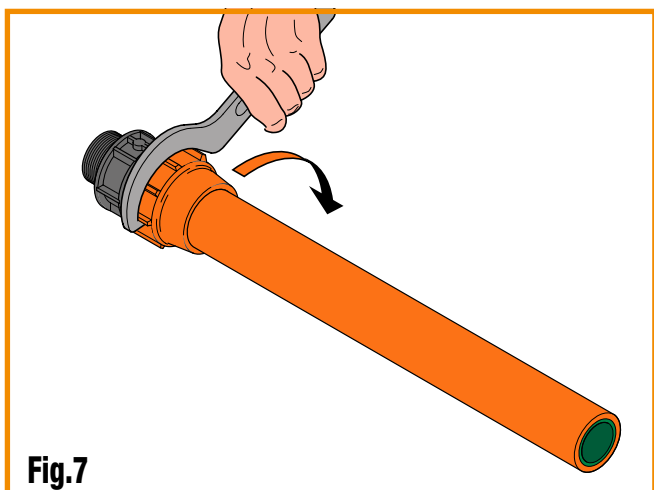
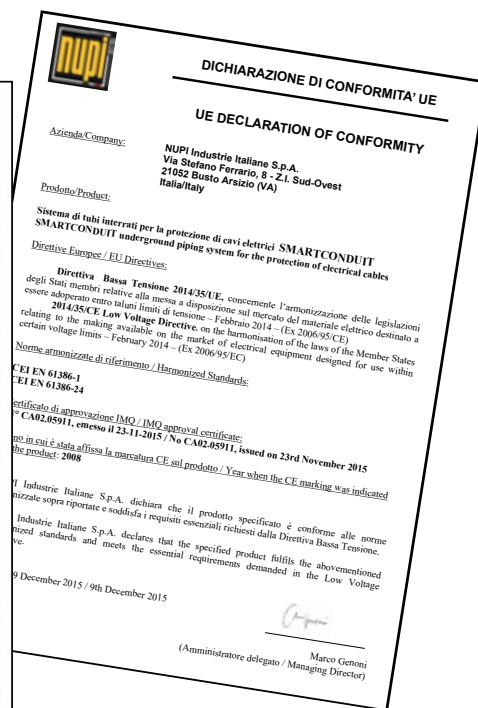


**Fig.7**

Use a standard wrench or special tool as shown to tighten the retaining nut.



# CERTIFICATES





# GENERAL SALES TERMS

## 1 PROVISIONS OF THE CONTRACT

The purchase and sale of the goods and services relating to the SMARTFLEX, SmartConduit and SmartCA Piping Systems, (collectively, "Products") by NUPI Industrie Italiane S.p.A. is governed by, and subject to, the following terms, covenants and conditions.

## 2 TERMS AND MEANS OF PAYMENT

The purchase price shown on the invoice issued by NUPI Industrie Italiane in connection with the purchase and sale of the products described therein is due and payable by the purchaser on or before the date, and in the manner, provided for under such invoice. Interest shall accrue on all past due balances at the annual rate equal to the EURIBOR current at the time, plus 2%, until such invoice amounts, and accrued previously unpaid interest, have been paid in full.

All prices on any document or correspondence issued by NUPI Industrie Italiane shall be understood to be in Euro. Any and all sums due and payable hereunder, or under any invoice, shall be due and payable at the offices of NUPI Industrie Italiane in Castel Guelfo di Bologna, Italy.

## 3 TERMS OF DELIVERY

The products covered by the terms of an order accepted and confirmed in accordance with the provisions of Paragraph 5 hereof, shall be shipped to the purchaser on the terms and conditions set forth and established on the order confirmation issued by NUPI Industrie Italiane. While NUPI Industrie Italiane will undertake reasonable efforts to comply with purchaser's requested shipping dates, no provision of these terms of sale, the order confirmation, or any other agreement between purchaser and NUPI Industrie Italiane be interpreted to (i) constitute NUPI Industrie Italiane's guarantee of specific shipping dates; or (ii) impose any liability for damages, including without limitation any consequential and/or exemplary damages, on the part of NUPI Industrie Italiane in the event of NUPI Industrie Italiane's delayed performance under this agreement or in connection with the delayed shipment, or delivery, of the products.

## 4 RESERVATION OF SECURITY INTEREST

NUPI Industrie Italiane hereby reserves a purchase money security interest in the products provided hereunder, or any other agreement between purchaser and NUPI Industrie Italiane, to secure the payment and performance of purchaser's payment obligations hereunder.

Any provision of these terms of sale, the order confirmation or any other agreement between purchaser and NUPI Industrie Italiane to the contrary notwithstanding, any and all risks of loss of the products, and any and all other risks associated with the products, are, and shall be, transferred to, and assumed by, the purchaser on the date of shipping of such products by NUPI Industrie Italiane.

In the event of purchaser's payment default, NUPI Industrie Italiane may, in addition to any other remedies at law or otherwise, reclaim the products and /or retain any and all sums previously paid by, or on behalf of, purchaser for such products.

Any default by purchaser under the terms hereof shall, at NUPI Industrie Italiane's option, constitute an event of default under any other agreement to which purchaser and NUPI Industrie Italiane are parties.

## 5 ORDER ACCEPTANCE

No order from a purchaser shall become binding upon NUPI Industrie Italiane unless expressly accepted, and confirmed, in writing by NUPI Industrie Italiane, within five (5) days after receipt of order. Orders and/or modifications of orders which have been made orally or by telephone must be confirmed in writing by the purchaser and the same shall not become binding upon NUPI Industrie Italiane unless approved and confirmed, in writing, by NUPI Industrie Italiane.

## 6 HANDLING FEE

A 50 Euro handling fee will be applied to any purchase order of less than 1,000 Euro in value.

## 7 PRODUCT ACCEPTANCE

Any claim or objection concerning one or more product acquired pursuant to these terms of sale, the order confirmation or any other agreement between the purchaser and NUPI Industrie Italiane must be in writing, and received by NUPI Industrie Italiane within ten days after delivery of such products to purchaser, otherwise the products shall be deemed to have been accepted.

## 8 PRODUCT COMPLIANCE AND WARRANTY

Subject to the provisions of paragraphs 9 and 10 hereof, NUPI Industrie Italiane guarantees that the products comply with the technical specifications stipulated in the order confirmation, and the technical specifications published by NUPI Industrie Italiane covering the products in effect on the shipping date of such products.

## 9 PRODUCT INSTALLATION AND LIABILITY

The performance and the cost for product installation is the responsibility of the purchaser. Accordingly, the purchaser assumes all responsibility for compliance with (and liability for failure to comply with) any and all applicable statutes, laws, rules and regulations relating to the suitability, compliance and safety of the products and the installation, the use of the products, the site at which the products will be installed and utilized, and the ultimate user of the products. Installation of the products must be performed by qualified installers who have been trained and certified by NUPI Industrie Italiane and whose work complies in all respects with the specifications and installation standards promulgated by NUPI Industrie Italiane. Accordingly, the purchaser further assumes all liability resulting from the purchaser's failure to provide copies of such specifications and installation standards and the brochures and other written materials covering the same to such installation personnel. Purchaser shall defend, indemnify and hold NUPI Industrie Italiane harmless from and against any and all claim, actions, damages, costs (including costs of litigation and settlement) arising, or alleged to have arisen in connection with any and all damages caused by, or resulting from any improper installation, lack of maintenance or improper use of the products.



# GENERAL SALES TERMS

## 10 WARRANTY

NUPI Industrie Italiane warrants that products sold by it which are incorporated in its SMARTFLEX Piping System shall be of good materials and workmanship and free from functional defects for a period of thirty (30) years from the date of sale, excepting valves, flex connectors, entry, terminating and test rubber boots, gaskets and o-rings, and products containing electrical components, which shall be of good materials and workmanship and free from functional defects for a period of one (1) year from the date of sale; provided that such products are properly installed in accordance with NUPI Industrie Italiane's specifications and published instructions by qualified installers who have been trained and certified by NUPI Industrie Italiane. These respective warranties shall become immediately null and void if the products to which they apply: (i) are employed in above-ground applications; (ii) are installed by anyone other than an installer trained by NUPI Industrie Italiane; or (iii) are installed in a manner which fails to comply with NUPI Industrie Italiane's written installation instructions.

AS THE SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF THE LIMITED WARRANTIES SET FORTH ABOVE, NUPI Industrie Italiane WILL REPLACE NONCONFORMING GOODS OR REFUND THE PURCHASE PRICE. THESE LIMITED WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE CONCERNING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THESE LIMITED WARRANTIES ARE ALSO IN LIEU OF ANY OTHER POSSIBLE LIABILITIES OF NUPI Industrie Italiane, WHETHER ALLEGED TO HAVE ARISEN BY AGREEMENT OR BY OPERATION OF LAW, RESPECTING THE SALE, INSTALLATION, USE OR FUNCTION OF NUPI Industrie Italiane'S PRODUCTS, INCLUDING, WITHOUT LIMITATION, CLAIMS OF NEGLIGENCE, GROSS NEGLIGENCE, STRICT LIABILITY OR ANY OTHER TORT. IN NO EVENT SHALL NUPI Industrie Italiane BE LIABLE FOR PERSONAL INJURY OR DAMAGE TO REAL OR PERSONAL PROPERTY ATTRIBUTED TO ITS PRODUCTS, NOR FOR ANY EXCAVATION, REMOVAL, DOWNTIME, CLEANUP, REMEDIATION, LOSS OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RENTAL VALUE, LOSS OF PROFITS, LOSS OF PRODUCTION, OR OTHER SPECIAL, INCIDENTAL, RESULTING, CONSEQUENTIAL OR EXEMPLARY DAMAGES.

No person is authorized by NUPI Industrie Italiane to accept for it any other liability of any kind in connection with the sale or use of products sold and/or marketed by it.

## 11 RETURN MATERIALS POLICY

Any provision of these terms of sale to the contrary notwithstanding, no purchaser shall be authorized to return any products to NUPI Industrie Italiane unless:

- \* NUPI Industrie Italiane authorizes the return of the products in writing;
- \* The products are returned to such address specified by NUPI Industrie Italiane prepaid freight in original packaging and accompanied by copy of the return authorization and
- \* The return of the products will result in the issuance by NUPI Industrie Italiane of a credit which may be utilized by the purchaser for future purchases of products, from which credit shall be deducted a restocking charge in an amount equal to twenty per cent (20%) of the purchase price of the returned products.

## 12 GOVERNING LAW

All disputes arising in relation to the relations between the parties to this contract, except for those involving payment of the amounts under the supply invoices, shall be settled under the Arbitration Rules and Internal Rules (current at the time the request is submitted) of the European Court of Arbitration, which is part of the European Arbitration Centre, with offices in Strasburg, without any right to review the first level decision taken by an Arbitration Court of Appeal.

## STORAGE

Store in a dry place out of direct sunlight at temperatures between -20°C and +50°C.

## RECOMMENDATIONS FOR WASTE DISPOSAL

Metal and plastic material must be disposed of by authorized companies only. Dispose of responsibly.

NUPI Industrie Italiane S.p.A. obtained a certification of quality in compliance to international standards EN ISO 9001 and EN ISO 14001. This prestigious certification proves that NUPI Industrie Italiane S.p.A. fulfils specific quality management and environmental management requirements.

NUPI Industrie Italiane S.p.A. reserves the right to make any appropriate technical modification without notice. Information in this document is subject to change without notice. NUPI Industrie Italiane S.p.A. does not guarantee the correct operation of the system in case the information contained in this document is not followed.

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