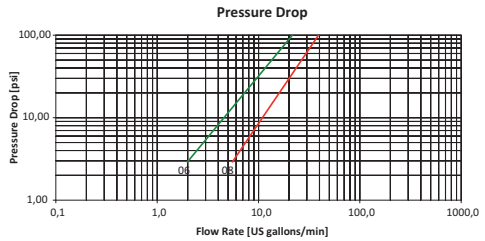
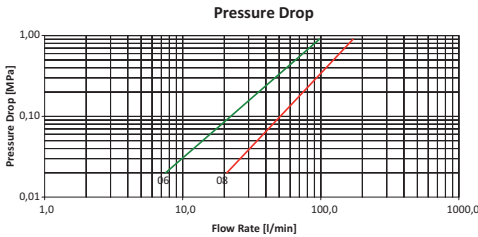




## PUSH-PULL

|      |                            |                                       |                   |  |                              |   |
|------|----------------------------|---------------------------------------|-------------------|--|------------------------------|---|
|      |                            |                                       |                   |  |                              |   |
| SIZE | WORKING PRESSURE (Dynamic) | RATED FLOW at 0,2MPa of pressure drop | CONNECTION EFFORT | OIL SPILLAGE Connection/ Disconnection | MINIMUM BURST PRESSURE (MPa) | CONNECTION / DISCONNECTION UNDER PRESSURE |

| mm   | inch | dash | MPa  | PSI  | L/min. | US GPM | N   | lb. | cc. | cubic inch | Female |       | M+F |       |             |
|------|------|------|------|------|--------|--------|-----|-----|-----|------------|--------|-------|-----|-------|-------------|
|      |      |      |      |      |        |        |     |     |     |            | MPa    | PSI   | MPa | PSI   |             |
| 10   | 3/8" | -06  | 31,5 | 4568 | 35     | 9,2    | 110 | 244 | 1,4 | 0,085      | 145    | 21025 | 130 | 18850 | Not allowed |
| 12,5 | 1/2" | -08  | 30   | 4350 | 75     | 19,8   | 110 | 244 | 1,8 | 0,110      | 150    | 21750 | 150 | 21750 | Not allowed |



Female coupling designed for agriculture applications, connectable with ISO 7241-1 series A male couplings ■ PUSH-PULL connection and disconnection system, in case of bulkhead mounting on the external sleeve ■ Break-away function according to ISO 5675 (in case of bulkhead mounting on the external sleeve) ■ Positive connection by latching balls system ■ Shut-off by poppet valve ■ High resistant materials ■ Dimensions and performances according to ISO 7241-1 series A

Acoplamiento rápido hembra precisamente desarrollado por aplicaciones agrícolas, acoplable con espiga macho a norma ISO 7241-1 parte A ■ Sistema de conexión y desconexión tipo PUSH-PULL, en el caso de fijado a pared por el casquillo ■ Función anti-rotura conforme con la norma ISO 5675 (en el caso de fijado a pared por el casquillo) ■ Bloqueo entre macho y hembra garantizado por un elevado número de esferas metálicas ■ Válvula de punzón ■ Materiales a alta resistencia ■ Dimensiones y prestaciones conforme con la norma ISO-7241-1 parte A

Kupplungsmuffe speziell für Landtechnikwendungen, Anschluss an ISO 7241-1 Stecker ■ PUSH-PULL Anschluß und Trennsystem für Schottmontage ■ Losreißfunktion gem. ISO 5675 ■ Verbindung durch Kugleinrastsystem ■ Verschluss durch Tellerventil ■ Widerstandsfähige Werkstoffe ■ Maße und Leistungsfähigkeit gem. ISO 7241-1 Teil A

Innesto rapido femmina specificatamente sviluppato per applicazioni agricole, accoppiabile con innesto maschio a norma ISO 7241-1 parte A ■ Sistema di connessione e disconnessione tipo PUSH-PULL, nel caso di fissaggio a parete tramite ghiera ■ Funzione anti-danneggiamento dei tubi in conformità con norma ISO 5675 (nel caso di fissaggio a parete tramite ghiera) ■ Bloccaggio tra maschio e femmina garantito da un elevato numero di sfere metalliche ■ Sistema di tenuta mediante valvola sporgente ■ Materiali ad alta resistenza ■ Dimensioni e prestazioni in conformità con norma ISO-7241-1 parte A

**GB****MATERIAL:**

Female couplings in steel with some hardened areas in correspondence to the most stressed points. Carbonitrided valve and sleeve, springs in C98 steel, latching balls in high resistance 100 C6 steel, seals in NBR (other materials on request) and Back-up Ring in PTFE

**WORKING TEMPERATURE:**

-22°F up to +230°F -30°C up to +110°C

(for other temperatures the coupling is assembled with the specified seals)

**SAFETY FACTOR:**

1:4 for dynamic pressures and 1:2 for static ones

**IMPULSE PRESSURES:**

100.000 cycles at 133% of the rated one (freq. 1Hz)

**TEST SPECIFICATIONS:**

ISO 7241-2

**ES****MATERIAL:**

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga. Válvula y casquillo carbonitrados, muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

**TEMPERATURA DE TRABAJO:**

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

**FACTOR DE SEGURIDAD:**

1:4 para presiones dinámicas y 1:2 para presiones estáticas

**PRESIONES DE IMPULSO:**

100.000 ciclos a 133% de la nominal (frec. 1Hz)

**CARACTERÍSTICAS DE LA PRUEBA:**

ISO 7241-2

**D****MATERIAL:**

M-Kupplungen aus Stahl mit einigen gehärteten Zonen im Bereich der am meisten beanspruchten Punkte. Carbonitriertes Ventil und Hülse, Federn aus C98-Stahl, Einrastkugeln aus 100 C6 Stahl, NBR-Dichtungen (andere Materialien auf Anfrage) und PTFE-Stützring

**BETRIEBSTEMPERATUR:**

-22°F bis +230°F -30°C bis +110°C

(für andere Temperaturen werden die Schnell-Kupplungen mit angegebenen Dichtungen ausgestattet)

**SICHERHEITSAKTOR:**

1:4 für dynamischen und 1:2 für statischen Druck

**DRUCKIMPULSE:**

100.000 Zyklen bei 133% des gemessenen (Frequenz 1Hz)

**PRÜFUNGSBEDINGUNGEN:**

ISO 7241-2

**IT****MATERIALI:**

Innesto femmina in acciaio con parti sollecitate trattate termicamente. Ghiera e valvole carbonitrate. Molle in acciaio C98. Sfere ad alta resistenza 100 C6. Guarnizioni in NBR (altri materiali su richiesta) e anelli anti-estrusione in PTFE

**TEMPERATURE DI ESERCIZIO:**

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

**FATTORE DI SICUREZZA:**

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

**RESISTENZA A PRESSIONI PULSANTI:**

100.000 cicli a 1Hz al 133% della pressione di esercizio

**TEST:** ISO-7241-2

## PUSH-PULL - MOUNTING SYSTEM



On the wall, with blocked sleeve and hose with coupling

En la pared con un casquillo bloqueado y una manguera con acoplamiento

An der Wand mit fest montierter Hülse und Schlauch mit Kupplung

Con innesto bloccato a parete sulla ghiera. Assemblato su tubo flessibile

### **CONNECTION / CONEXIÓN / ANSCHLUSS / CONNESSIONE**

#### **by pushing the male coupling (PUSH)**

presionando el acoplamiento macho (PUSH)

durch Drücken der V-Kupplung (PUSH)

spingendo l'innesto maschio (PUSH)

### **DISCONNECTION / DESCONEXIÓN / TRENNUNG / DISCONNESSIONE**

#### **by pulling the male coupling (PULL)**

tirando del acoplamiento macho (PULL)

durch Ziehen der V-Kupplung (PUSH)

tirando l'innesto maschio (PUSH)

### **BREAKAWAY FUNCTION / FUNCIÓN DE DESMONTAJE /**

#### **ABRISSFUNKTION / FUNZIONE DI SMONTAGGIO**

yes / sí / ja / si



Hoses with couplings

Mangueras con acoplamientos

Schläuche mit Kupplungen

Tubo flessibile su entrambi gli innesti

### **CONNECTION / CONEXIÓN / Der ANSCHLUSS / CONNESSIONE**

#### **by holding the female coupling on the sleeve and pushing the male coupling**

sujetando el acoplamiento hembra en el casquillo y presionando el acoplamiento macho

erfolgt durch Festhalten der M-Kupplung an der Hülse und Eindrücken der V-Kupplung

tenendo l'innesto sulla ghiera spingere l'innesto maschio

### **DISCONNECTION / DESCONEXIÓN / TRENNUNG / DISCONNESSIONE**

#### **by holding the female coupling on the sleeve and pulling the male coupling**

sujetando el acoplamiento hembra en el casquillo y tirando del acoplamiento macho

erfolgt durch Festhalten der M-Kupplung an der Hülse und Ziehen der V-Kupplung

tenendo l'innesto sulla ghiera tirare l'innesto maschio

### **BREAKAWAY FUNCTION / FUNCIÓN DE DESMONTAJE /**

#### **ABRISSFUNKTION / FUNZIONE DI SMONTAGGIO**

no / no / nein / no

**PUSH-PULL - MOUNTING SYSTEM**

Hose with female coupling and pipe with male coupling

Manguera con acoplamiento hembra y tubo con acoplamiento macho

An der Wand mit fest montierter Hülse und Schlauch mit Kupplung

Tubo flessibile con innesto femmina e tubo rigido con innesto maschio

**CONNECTION / CONEXIÓN / Der ANSCHLUSS / CONNESSIONE**  
by holding the female coupling on the sleeve and pushing the same one

sujetando el acoplamiento hembra en el casquillo y presionando el mismo

erfolgt durch Festhalten der M-Kupplung an der Hülse und Eindrücken derselben

trattenendo l'innesto femmina sulla ghiera spingere la stessa

**DISCONNECTION / DESCONEXIÓN / Die TRENNUNG / DISCONNESSIONE**  
by holding the female coupling on the sleeve and pulling

sujetando el acoplamiento hembra en el casquillo y tirando del mismo

erfolgt durch Festhalten der M-Kupplung an der Hülse und Ziehen

trattenendo l'innesto femmina sulla ghiera, tirare

**BREAKAWAY FUNCTION / FUNCIÓN DE DESMONTAJE /**  
**ABRISSFUNKTION / FUNZIONE DI SMONTAGGIO**

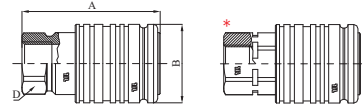
no / no / nein / no

## PUSH-PULL - TERMINATION ENDS

**BSP**

### Q01311041A

BSP TERMINATION ENDS TO DIN 3852 X TYPE  
 ROSCA BSP PARA DIN 3852 TIPO X  
 BSP-M-ENDSTÜCKE NACH DIN 3852 FORM X  
 TERMINALI BSP A NORMA DIN 3852 FORMA X



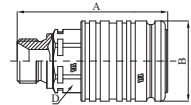
\* Male and female in two parts / Macho y hembra en dos partes  
 Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

| SIZE |      |      | PART NUMBER       | THREADS | DIMENSIONS mm |     |    |
|------|------|------|-------------------|---------|---------------|-----|----|
| mm   | inch | dash | Female Coupling   |         | A             | B   | D  |
| 10   | 3/8" | 06   | Q01311041A-06-04* | 1/4"    | 63            | ø32 | 22 |
|      |      |      | Q01311041A-06-06* | 3/8"    | 64,5          | ø32 | 22 |
| 12,5 | 1/2" | 08   | Q01311041A-08-06* | 3/8"    | 66,2          | ø38 | 27 |
|      |      |      | Q01311041A-08-08  | 1/2"    | 67            | ø38 | 27 |

\* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

### Q01311050A

BSP TERMINATION END TO ISO 8434-6  
 ROSCA BSP PARA ISO 8434-6  
 BSP-M-ENDSTÜCKE NACH ISO 8434-6  
 TERMINALI BSP A NORMA ISO 8434-6

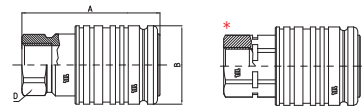


| SIZE |      |      | PART NUMBER      | THREADS | DIMENSIONS mm |     |    |
|------|------|------|------------------|---------|---------------|-----|----|
| mm   | inch | dash | Female Coupling  |         | A             | B   | D  |
| 12,5 | 1/2" | 08   | Q01311050A-08-06 | 3/8"    | 68,9          | ø38 | 27 |
|      |      |      | Q01311050A-08-08 | 1/2"    | 71,4          | ø38 | 27 |

**METRIC**

### Q01311141A

METRIC TERMINATION ENDS TO DIN 3852 X TYPE  
 ROSCA MÉTRICA PARA DIN 3852 TIPO X  
 METRISCHE M-ENDSTÜCKE NACH DIN 3852 FORM X  
 TERMINALI METRICI A NORMA DIN 3852 FORMA X

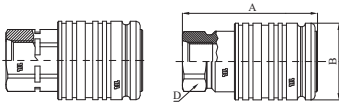


\* Male and female in two parts / Macho y hembra en dos partes  
 Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

| SIZE |      |      | PART NUMBER       | THREADS | DIMENSIONS mm |     |    |
|------|------|------|-------------------|---------|---------------|-----|----|
| mm   | inch | dash | Female Coupling   |         | A             | B   | D  |
| 10   | 3/8" | 06   | Q01311141A-06-16* | M16x1.5 | 64,5          | ø32 | 22 |
|      |      |      | Q01311141A-08-18* | M18x1.5 | 66,2          | ø38 | 27 |
| 12,5 | 1/2" | 08   | Q01311141A-08-20  | M20x1.5 | 67            | ø38 | 27 |
|      |      |      | Q01311141A-08-22  | M22x1.5 | 67            | ø38 | 27 |

\* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

PUSH-PULL - TERMINATION ENDS



\* Male and female in two parts / Macho y hembra en dos partes  
Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

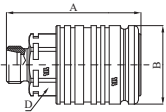
**Q01311191A**

METRIC TERMINATION ENDS TO ISO 6149-1  
ROSCA MÉTRICA PARA ISO 6149-1  
METRISCHE M-ENDSTÜCKE NACH ISO 6149-1  
TERMINALI METRICI A NORMA ISO 6149-1

| SIZE |  |  | PART NUMBER | THREADS | DIMENSIONS mm |  |  |
|------|--|--|-------------|---------|---------------|--|--|
|------|--|--|-------------|---------|---------------|--|--|

| mm   | inch | dash | Female Coupling   |         | A    | B   | D  |
|------|------|------|-------------------|---------|------|-----|----|
| 12,5 | 1/2" | -08  | Q01311191A-08-16* | M16x1,5 | 66,7 | ø38 | 27 |
|      |      |      | Q01311191A-08-18* | M18x1,5 | 68,2 | ø38 | 27 |
|      |      |      | Q01311141A-08-22  | M22x1,5 | 67   | ø38 | 27 |

\* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.



**Q01311110A**

METRIC TERMINATION ENDS TO ISO 8434-1 L SERIES  
ROSCA MÉTRICA PARA ISO 8434-1 SERIE L  
METRISCHE M-ENDSTÜCKE NACH ISO 8434-1 SERIE L  
TERMINALI METRICI A NORMA ISO 8434-1 SERIE L

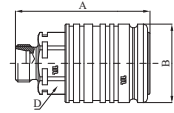
| SIZE |  |  | PART NUMBER | THREADS | DIMENSIONS mm |  |  |
|------|--|--|-------------|---------|---------------|--|--|
|------|--|--|-------------|---------|---------------|--|--|

| mm   | inch | dash | Female Coupling  |         | A    | B   | D  |
|------|------|------|------------------|---------|------|-----|----|
| 10   | 3/8" | -06  | Q01311110A-06-12 | M12x1,5 | 61   | ø32 | 22 |
|      |      |      | Q01311110A-06-14 | M14x1,5 | 61   | ø32 | 22 |
|      |      |      | Q01311110A-06-16 | M16x1,5 | 61   | ø32 | 22 |
|      |      |      | Q01311110A-06-18 | M18x1,5 | 61   | ø32 | 22 |
| 12,5 | 1/2" | -08  | Q01311110A-08-14 | M14x1,5 | 65,2 | ø38 | 27 |
|      |      |      | Q01311110A-08-16 | M16x1,5 | 66,2 | ø38 | 27 |
|      |      |      | Q01311110A-08-18 | M18x1,5 | 65,2 | ø38 | 27 |
|      |      |      | Q01311110A-08-22 | M22x1,5 | 66,2 | ø38 | 27 |
|      |      |      | Q01311110A-08-26 | M26x1,5 | 66,2 | ø38 | 30 |

## PUSH-PULL - TERMINATION ENDS

### Q0131120A

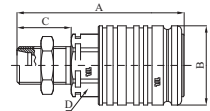
METRIC TERMINATION ENDS TO ISO 8434-1 S SERIES  
 ROSCA MÉTRICA PARA ISO 8434-1 SERIE S  
 METRISCHE M-ENDSTÜCKE NACH ISO 8434-1 SERIE S  
 TERMINALI METRICI A NORMA ISO 8434-1 SERIE S



| SIZE |      |      | PART NUMBER     | THREADS | DIMENSIONS mm |     |    |
|------|------|------|-----------------|---------|---------------|-----|----|
| mm   | inch | dash | Female Coupling |         | A             | B   | D  |
| 10   | 3/8" | -06  | Q0131120A-06-16 | M16x1,5 | 62            | ø32 | 22 |
|      |      |      | Q0131120A-06-18 | M18x1,5 | 62            | ø32 | 22 |
| 12,5 | 1/2" | -08  | Q0131120A-08-18 | M18x1,5 | 66,2          | ø38 | 27 |
|      |      |      | Q0131120A-08-20 | M20x1,5 | 66,2          | ø38 | 27 |
|      |      |      | Q0131120A-08-24 | M24x1,5 | 68,2          | ø38 | 27 |

### Q01311770B

METRIC TERMINATION ENDS TO ISO 8434-1 BULKHEAD L SERIES  
 ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE L  
 METRISCHE M-ENDSTÜCKE NACH ISO 8434-1 SCHOTT SERIE L  
 TERMINALI METRICI A NORMA ISO 8434-1 SERIE L PASSAPARETE

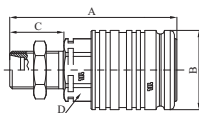


| SIZE |      |      | PART NUMBER      | THREADS | DIMENSIONS mm |     |    |    |
|------|------|------|------------------|---------|---------------|-----|----|----|
| mm   | inch | dash | Female Coupling  |         | A             | B   | C  | D  |
| 10   | 3/8" | -06  | Q01311770B-06-12 | M12x1,5 | 76            | ø32 | 25 | 22 |
|      |      |      | Q01311770B-06-14 | M14x1,5 | 75            | ø32 | 25 | 22 |
|      |      |      | Q01311770B-06-16 | M16x1,5 | 75            | ø32 | 26 | 22 |
|      |      |      | Q01311770B-06-18 | M18x1,5 | 75            | ø32 | 26 | 22 |
| 12,5 | 1/2" | -08  | Q01311770B-08-14 | M14x1,5 | 80,2          | ø38 | 25 | 27 |
|      |      |      | Q01311770B-08-16 | M16x1,5 | 80,2          | ø38 | 26 | 27 |
|      |      |      | Q01311770B-08-18 | M18x1,5 | 80,2          | ø38 | 26 | 27 |
|      |      |      | Q01311770B-08-22 | M22x1,5 | 81,2          | ø38 | 27 | 27 |
|      |      |      | Q01311770B-08-26 | M26x1,5 | 82,2          | ø38 | 28 | 30 |

## PUSH-PULL - TERMINATION ENDS

### Q01311870B

METRIC TERMINATION ENDS TO ISO 8434-1 BULKHEAD S SERIES  
 ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE S  
 METRISCHE M-ENDSTÜCKE NACH ISO 8434-1 SCHOTT SERIE S  
 TERMINALI METRICI A NORMA ISO 8434-1 SERIE S PASSAPARETE

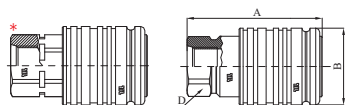


| SIZE |      |      | PART NUMBER      | THREADS | DIMENSIONS mm |     |    |    |
|------|------|------|------------------|---------|---------------|-----|----|----|
| mm   | inch | dash | Female Coupling  |         | A             | B   | C  | D  |
| 10   | 3/8" | -06  | Q01311870B-06-16 | M16x1,5 | 76            | ø32 | 27 | 22 |
|      |      |      | Q01311870B-06-18 | M18x1,5 | 76            | ø32 | 27 | 22 |
| 12,5 | 1/2" | -08  | Q01311870B-08-18 | M18x1,5 | 81,2          | ø38 | 27 | 27 |
|      |      |      | Q01311870B-08-20 | M20x1,5 | 81,2          | ø38 | 27 | 27 |
|      |      |      | Q01311870B-08-24 | M24x1,5 | 83,2          | ø38 | 29 | 27 |

SAE

### Q01311301A

SAE TERMINATION ENDS TO SAE J1926-1  
 ROSCA SAE PARA SAE J1923-1  
 SAE M-ENDSTÜCKE NACH SAE J1926-1  
 TERMINALI SAE A NORMA SAE J1926-1



\* Male and female in two parts / Macho y hembra en dos partes  
 Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

| SIZE |      |      | PART NUMBER       | THREADS      | DIMENSIONS mm |     |    |
|------|------|------|-------------------|--------------|---------------|-----|----|
| mm   | inch | dash | Female Coupling   |              | A             | B   | D  |
| 10   | 3/8" | -06  | Q01311301A-06-06* | 9/16"-18 UNF | 64,5          | ø32 | 22 |
|      |      |      | Q01311301A-08-08  | 3/4"-16 UNF  | 67            | ø38 | 27 |
| 12,5 | 1/2" | -08  | Q01311301A-08-10  | 7/8"-14 UNF  | 69            | ø38 | 27 |

\* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.



## PUSH-PULL - TERMINATION ENDS

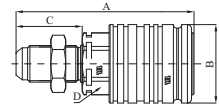
### Q01311230A

SAE TERMINATION ENDS TO ISO 8434-2 BULKHEAD

ROSCA SAE PARA ISO 8434-2 PASATABIQUE

KUPPLUNGSMUFFE MIT SAE GEWINDE FÜR SCHOTTMONTAGE NACH ISO 8434-2

TERMINALI SAE A NORMA ISO 8434-2 PASSAPARETE



| SIZE |      |      | PART NUMBER      | THREADS     | DIMENSIONS mm |     |      |    |
|------|------|------|------------------|-------------|---------------|-----|------|----|
| mm   | inch | dash | Female Coupling  |             | A             | B   | C    | D  |
| 12,5 | 1/2" | -08  | Q01311230A-08-08 | 3/4"-16 UNF | 91,8          | ø38 | 37,6 | 27 |
|      |      |      | Q01311230A-08-10 | 7/8"-14 UNF | 95,3          | ø38 | 41,1 | 27 |

### NPT

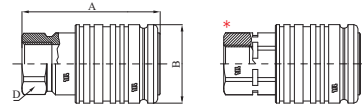
### Q01311341A

NPT TERMINATION ENDS TO ANSI B 1.20.3

ROSCA NPT PARA ANSI B 1.20.3

KUPPLUNGSMUFFE MIT NPT GEWINDE NACH ANSI B 1.20.3

TERMINALI NPT A NORMA ANSI B 1.20.3



\* Male and female in two parts / Macho y hembra en dos partes  
Stecker und Muffe zweiseitig / Maschio e femmina in due parti.

| SIZE |      |      | PART NUMBER       | THREADS   | DIMENSIONS mm |     |    |
|------|------|------|-------------------|-----------|---------------|-----|----|
| mm   | inch | dash | Female Coupling   |           | A             | B   | D  |
| 10   | 3/8" | -06  | Q01311341A-06-06* | 3/8" NPTF | 64,5          | ø32 | 22 |
| 12,5 | 1/2" | -08  | Q01311341A-08-08  | 1/2" NPTF | 67            | ø38 | 27 |

\* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

Available push-pull 1/2", ball valve: Q01411041A-08-08, Q01411341A-08-08. For info contact R&D Q.Safe.  
 Disponible push-pull 1/2" con válvula bola: Q01411041A-08-08, Q01411341A-08-08. Para más información contacte con R&D Q.safe.  
 Verfügbar push-pull 1/2", Kugelventil: Q01411041A-08-08, Q01411341A-08-08. Für Infos bitte Entwicklungsabteilung Q.Safe kontaktieren.  
 Disponibile push-pull 1/2" con valvola a sfera: Q01411041A-08-08, Q01411341A-08-08. Per informazioni contattare la divisione R&D Q.safe.