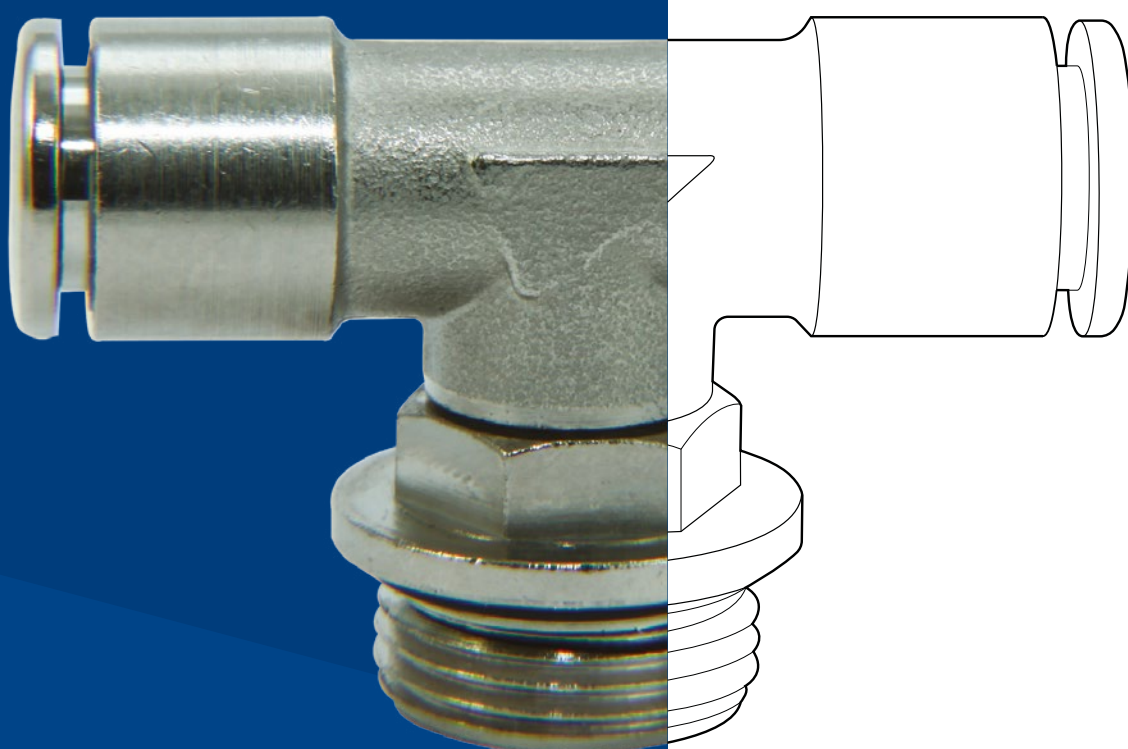


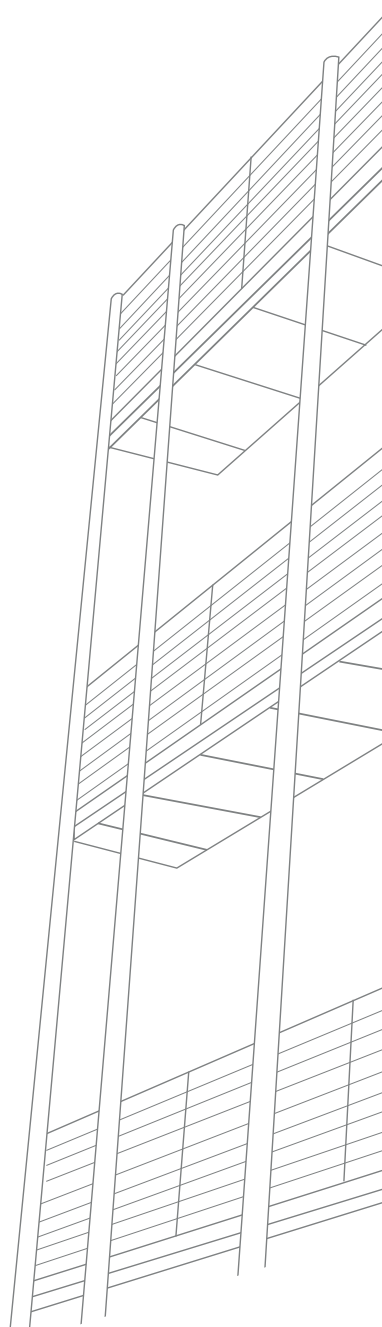
# INNESTI RAPIDI IN OTTONE

  
MADE IN ITALY









 **TierreGroup**®  
INDUSTRIAL AUTOMATION  
HYGIENIC&FOOD FOOD&BEVERAGE

 **TierreFittings**®

 **F-Line**®

 **NET.Fit**®

 **INOX.Fit**®



# INNESTI RAPIDI IN OTTONE

## PLUS

Raccordi di facile utilizzo con  
**PRESTAZIONI ELEVATE**

**ROBUSTI** ma al tempo stesso compatti  
per garantire la massima flessibilità di  
assemblaggio

**MATERIALI SILICON FREE**

**CONFORMI ALLA NORMATIVA  
ISO 14743**

**GAMMA COMPLETA** idonea all'utilizzo  
con tubi di diverse tipologie

**NICHELATI ELETTROLITICAMENTE** al  
fine di garantire la massima durata nel tempo

**UTILIZZABILI CON VUOTO**

**SISTEMA PINZA STATICO** al fine di  
annullare i movimenti del tubo una volta  
inserito, garantendo una tenuta perfetta

Ogni raccordo è **STUDIATO PER  
GARANTIRE IL MASSIMO  
PASSAGGIO POSSIBILE** in funzione del  
diametro del tubo ed dell'eventuale filettatura

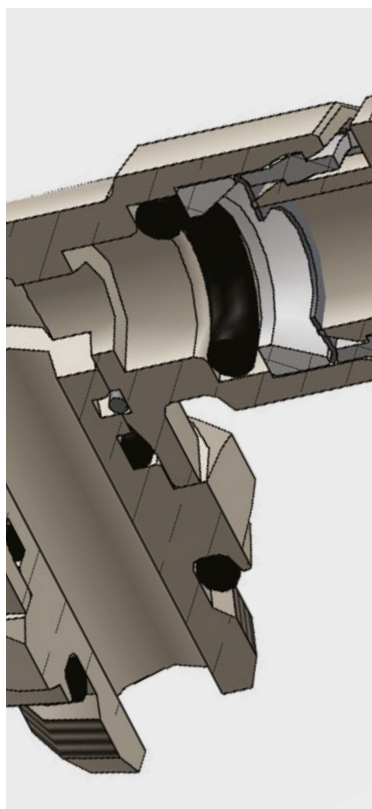
**OR CON CORDA MAGGIORATA** per  
una maggiore tenuta e resistenza a vibrazioni e  
movimenti laterali del tubo

M A D E I N I T A L Y



|                                                                                   |                                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |   |  |   |  |  |
| p. 8 / <b>OTRC-R</b>                                                              | p. 8 / <b>OTRC-G</b>                                                               | p. 9 / <b>OTRC-N</b>                                                              | p. 9 / <b>OTROC-N</b>                                                              | p. 9 / <b>OTRMM</b>                                                                 | p. 10 / <b>OTRME</b>                                                                |
|  |   |  |  |  |  |
| p. 10 / <b>OTRL-R</b>                                                             | p. 10 / <b>OTRL-G</b>                                                              | p. 11 / <b>OTRL-N</b>                                                             | p. 11 / <b>OTRT-R</b>                                                              | p. 12 / <b>OTRT-G</b>                                                               | p. 12 / <b>OTRT-N</b>                                                               |
|  |   |  |   |  |  |
| p. 13 / <b>OTA-G</b>                                                              | p. 13 / <b>OTRUC</b>                                                               | p. 13 / <b>OTRUC-N</b>                                                            | p. 14 / <b>OTRUL</b>                                                               | p. 14 / <b>OTRUL-N</b>                                                              | p. 14 / <b>OTRUT</b>                                                                |
|  |  |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| p. 14 / <b>OTRUT-N</b>                                                            | p. 15 / <b>OTRGJ</b>                                                               |                                                                                   |                                                                                    |                                                                                     |                                                                                     |





-20°C ÷ 80°C



Pressione d'esercizio:

16 Bar

Pressione negativa:

- 750 mmHg ( - 0,999 Bar)



Aria Compressa e Vuoto



Conica gas BSPT ISO 7  
da R1/8" to R1/2"

Cilindrica gas BSPP ISO 228

da G1/8" to G1/2"

Metrica ISO 262 M5 e M7

NPT ANSI B 1.20.1

da N1/8" a N1/2"

UNF ANSI B 1.1 10-32 UF



Poliammide, Poliuretano,  
Polietilene

Corpo: ottone nichelato  
UNI EN 12164 CW614N & UNI  
EN 12164 CW617N

Collare: POM

Colletto: ottone nichelato  
UNI EN 12164 CW614N

Guarnizione: NBR senza silicone

Pinza: acciaio inox AISI 301

Distanziale: PBT

Anello di tenuta per sistemi girevoli:  
acciaio inox AISI 302



Prodotti conformi alla  
direttiva 1907/2006

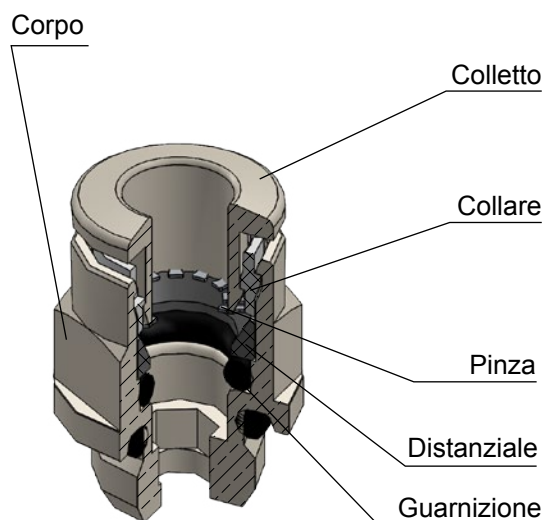
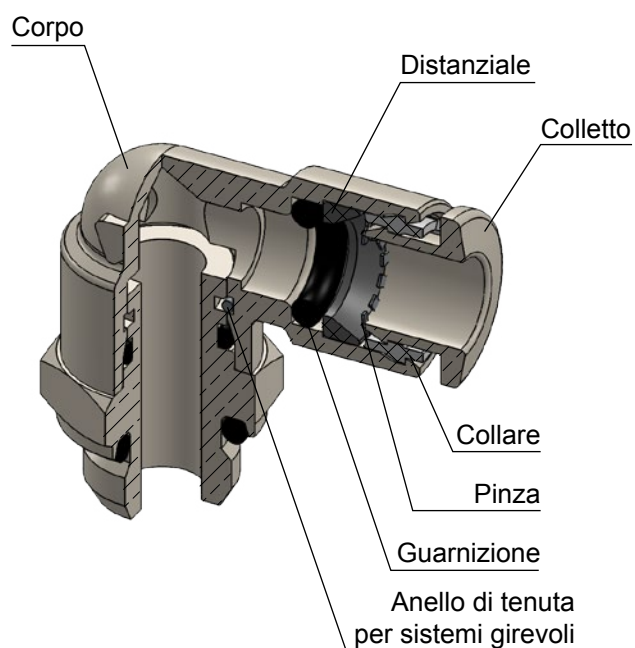


**RoHS2**

Prodotti conformi alla  
direttiva 2011/65/EU

**SILICON FREE**

## DETTAGLI COSTRUTTIVI

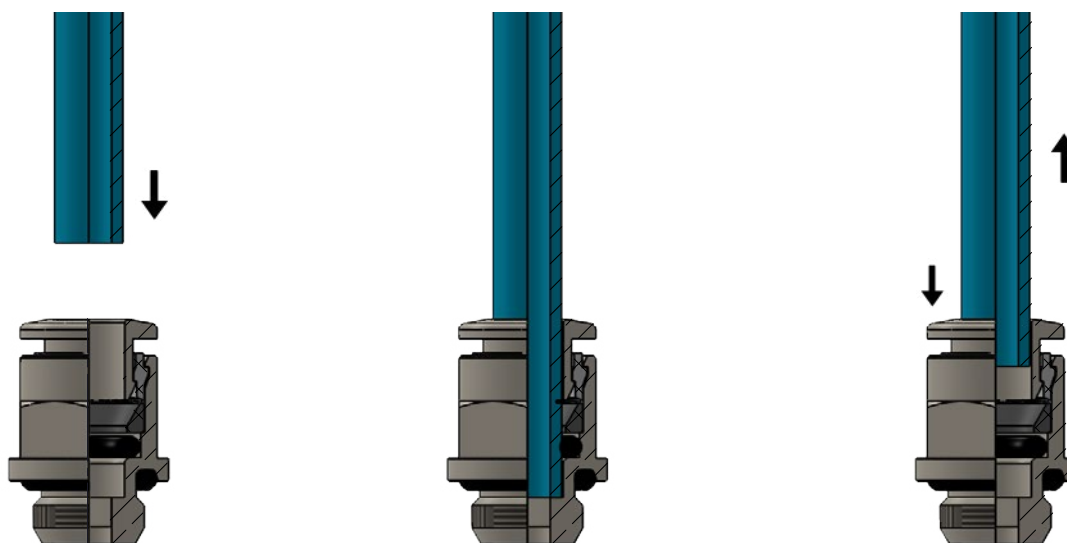


## CONNESSIONE DEL TUBO AL RACCORDO

- Assicurarsi che il tubo sia sempre inserito completamente fino a battuta.
- Tagliare il tubo a 90° mediante l'utilizzo di un apposito cutter, inserirlo fino a battuta e tirarlo con accortezza per accertare il corretto inserimento.
- Se ci sono danni o imperfezioni sulla superficie del tubo o se lo stesso risulta ovalizzato si possono verificare delle perdite d'aria od una imprevista disconnessione. Verificare il tutto scrupolosamente.
- Il diametro esterno del tubo in poliuretano si espande in base alla pressione applicata. Pertanto il reinserimento del raccordo potrebbe non essere più possibile.
- Tagliare la parte di tubo agganciata al raccordo per poterlo riutilizzare.

## DISCONNESSIONE DEL TUBO DAL RACCORDO

- Accertarsi che il tubo non sia in pressione prima di disconnettere lo stesso dal raccordo.
- Per sganciare il tubo premere l'anello di sgancio, tirare ed estrarre il tubo contemporaneamente.



### TOLLERANZA - TUBO METRICO

| Ø TUBO (mm)     | 4     | 6     | 8     | 10     | 12     |
|-----------------|-------|-------|-------|--------|--------|
| TOLLERANZA (mm) | ± 0,1 | ± 0,1 | ± 0,1 | ± 0,15 | ± 0,15 |

### INSERIMENTO - TUBO METRICO

| Ø TUBO (mm)                        | 4  | 6    | 8    | 10 | 12 |
|------------------------------------|----|------|------|----|----|
| LUNGHEZZA DI INSERIMENTO TUBO (mm) | 14 | 15,5 | 17,5 | 19 | 21 |

### TOLLERANZA - TUBO IN POLLICI

| Ø TUBO            | 5/32   | 1/4    | 5/16   | 3/8     | 1/2     |
|-------------------|--------|--------|--------|---------|---------|
| TOLLERANZA (Inch) | ±0,004 | ±0,004 | ±0,004 | ± 0,006 | ± 0,006 |

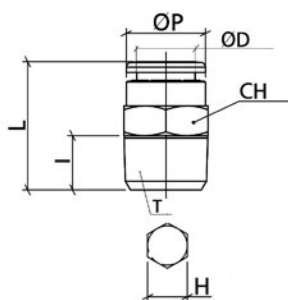
### INSERIMENTO - TUBO IN POLLICI

| Ø TUBO                               | 5/32  | 1/4   | 5/16  | 3/8   | 1/2   |
|--------------------------------------|-------|-------|-------|-------|-------|
| LUNGHEZZA DI INSERIMENTO TUBO (Inch) | 0,551 | 0,629 | 0,688 | 0,728 | 0,846 |



## OTRC-R

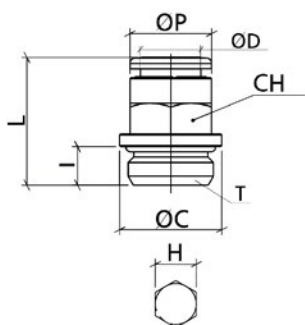
## Diritto maschio conico BSPT nichelato



| CODICI    | ØD | T     | ØP | I  | L    | CH | H  | GR.  |
|-----------|----|-------|----|----|------|----|----|------|
| OTRC04R01 | 4  | R1/8" | 10 | 8  | 18,5 | 10 | 3  | 7,0  |
| OTRC04R02 |    | R1/4" | 10 | 10 | 20   | 14 | 3  | 15,0 |
| OTRC06R01 | 6  | R1/8" | 12 | 8  | 21   | 12 | 4  | 9,0  |
| OTRC06R02 |    | R1/4" | 12 | 10 | 20   | 14 | 4  | 14,0 |
| OTRC08R01 | 8  | R1/8" | 14 | 8  | 26   | 14 | 5  | 15,0 |
| OTRC08R02 |    | R1/4" | 14 | 10 | 24   | 14 | 6  | 14,0 |
| OTRC08R03 |    | R3/8" | 14 | 11 | 22   | 17 | 6  | 24,0 |
| OTRC10R02 | 10 | R1/4" | 16 | 10 | 31   | 16 | 6  | 22,0 |
| OTRC10R03 |    | R3/8" | 16 | 11 | 26   | 17 | 8  | 23,0 |
| OTRC10R04 |    | R1/2" | 16 | 14 | 26,5 | 22 | 8  | 45,0 |
| OTRC12R02 | 12 | R1/4" | 19 | 10 | 33   | 19 | 6  | 21,0 |
| OTRC12R03 |    | R3/8" | 19 | 11 | 29,5 | 19 | 10 | 27,0 |
| OTRC12R04 |    | R1/2" | 19 | 14 | 27   | 22 | 10 | 44,5 |

## OTRC-G

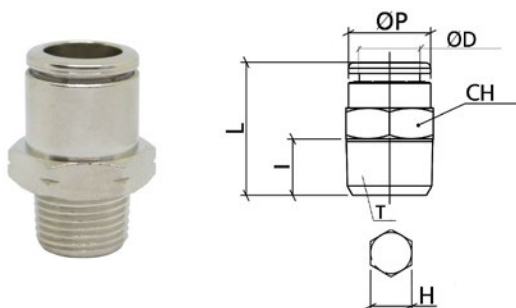
## Diritto maschio cilindrico BSPP &amp; metrico nichelato



| CODICI    | ØD | T      | ØP | ØC | I   | L    | CH | H   | GR.  |
|-----------|----|--------|----|----|-----|------|----|-----|------|
| OTRC04M5  | 4  | M5X0,8 | 10 | 7  | 4   | 19   | 9  | 2,5 | 5,0  |
| OTRC04G01 |    | G1/8"  | 10 | 14 | 5,5 | 18   | 10 | 3   | 8,0  |
| OTRC04G02 |    | G1/4"  | 10 | 16 | 6,5 | 18   | 10 | 3   | 11,0 |
| OTRC06M5  | 6  | M5X0,8 | 12 | 7  | 4   | 21   | 11 | 2,5 | 8,0  |
| OTRC06G01 |    | G1/8"  | 12 | 14 | 5,5 | 19,5 | 12 | 4   | 9,0  |
| OTRC06G02 |    | G1/4"  | 12 | 16 | 6,5 | 19,5 | 12 | 4   | 12,0 |
| OTRC08G01 | 8  | G1/8"  | 14 | 14 | 5,5 | 24,5 | 14 | 5   | 14,0 |
| OTRC08G02 |    | G1/4"  | 14 | 16 | 6,5 | 21,5 | 14 | 6   | 13,5 |
| OTRC08G03 |    | G3/8"  | 14 | 20 | 7,5 | 21,5 | 14 | 6   | 20,0 |
| OTRC10G02 | 10 | G1/4"  | 16 | 16 | 6,5 | 27,5 | 16 | 6   | 19,0 |
| OTRC10G03 |    | G3/8"  | 16 | 20 | 7,5 | 25   | 16 | 8   | 22,0 |
| OTRC10G04 |    | G1/2"  | 16 | 25 | 9   | 25   | 16 | 8   | 33,0 |
| OTRC12G02 | 12 | G1/4"  | 19 | 16 | 6,5 | 30   | 19 | 6   | 28,0 |
| OTRC12G03 |    | G3/8"  | 19 | 22 | 7,5 | 29,5 | 19 | 10  | 30,0 |
| OTRC12G04 |    | G1/2"  | 19 | 25 | 9   | 28   | 19 | 10  | 37,0 |

## OTRC-N

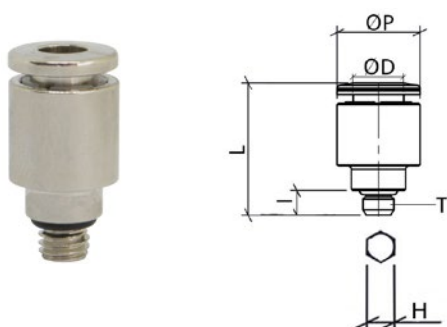
### Diritto maschio NPT nichelato



| CODICI     | ØD    | T     | ØP    | I     | L     | CH     | H     | GR.  |
|------------|-------|-------|-------|-------|-------|--------|-------|------|
| OTRC532N01 | 5/32" | N1/8" | 0,393 | 0,334 | 0,748 | 7/16"  | 1/8"  | 9,0  |
| OTRC532N02 |       | N1/4" | 0,393 | 0,413 | 0,787 | 9/16"  | 1/8"  | 16,0 |
| OTRC1-4N01 | 1/4"  | N1/8" | 0,511 | 0,334 | 0,885 | 1/2"   | 3/16" | 11,0 |
| OTRC1-4N02 |       | N1/4" | 0,511 | 0,413 | 0,885 | 9/16"  | 3/16" | 15,0 |
| OTRC516N01 | 5/16" | N1/8" | 0,551 | 0,334 | 1,062 | 9/16"  | 3/16" | 15,5 |
| OTRC516N02 |       | N1/4" | 0,551 | 0,413 | 1,003 | 9/16"  | 1/4"  | 16,0 |
| OTRC516N03 |       | N3/8" | 0,551 | 0,452 | 0,925 | 11/16" | 1/4"  | 25,0 |
| OTRC38N01  | 3/8"  | N1/8" | 0,629 | 0,334 | 1,122 | 11/16" | 3/16" | 21,5 |
| OTRC38N02  |       | N1/4" | 0,629 | 0,413 | 1,181 | 11/16" | 1/4"  | 25,0 |
| OTRC38N03  |       | N3/8" | 0,629 | 0,452 | 1,003 | 11/16" | 5/16" | 24,0 |
| OTRC38N04  |       | N1/2" | 0,629 | 0,570 | 1,043 | 7/8"   | 5/16" | 46,0 |
| OTRC1-2N02 | 1/2"  | N1/4" | 0,748 | 0,413 | 1,318 | 7/8"   | 1/4"  | 37,0 |
| OTRC1-2N03 |       | N3/8" | 0,748 | 0,452 | 1,338 | 7/8"   | 3/8"  | 39,0 |
| OTRC1-2N04 |       | N1/2" | 0,748 | 0,570 | 1,181 | 7/8"   | 3/8"  | 43,0 |

## OTROC-N

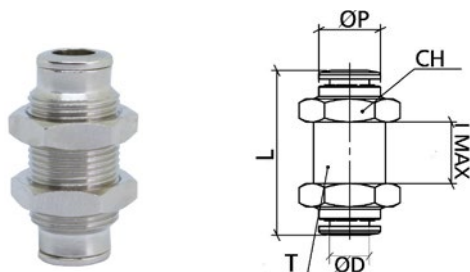
### Diritto maschio tondo UNF nichelato



| CODICI         | ØD    | T         | ØP    | I     | L     | H     | GR.  |
|----------------|-------|-----------|-------|-------|-------|-------|------|
| OTROC532UF1032 | 5/32" | UNF 10-32 | 0,393 | 0,157 | 0,748 | 3/32" | 12,0 |
| OTROC1-4UF1032 | 1/4"  | UNF 10-32 | 0,511 | 0,157 | 0,846 | 3/32" | 16,0 |

## OTRMM

### Passaparete nichelato

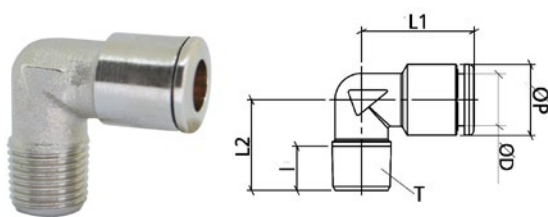


| CODICI      | ØD | T       | ØP | L    | I MAX | CH | GR.  |
|-------------|----|---------|----|------|-------|----|------|
| OTRMM04-532 | 4  | M12X1   | 10 | 30   | 12    | 16 | 23,0 |
| OTRMM0600   | 6  | M14X1   | 12 | 35,5 | 15    | 17 | 31,0 |
| OTRMM08-516 | 8  | M16X1   | 14 | 36,5 | 16    | 19 | 36,0 |
| OTRMM1000   | 10 | M20X1   | 16 | 43   | 19    | 24 | 70,0 |
| OTRMM1200   | 12 | M22X1,5 | 19 | 44   | 20    | 25 | 76,0 |



**OTRME**

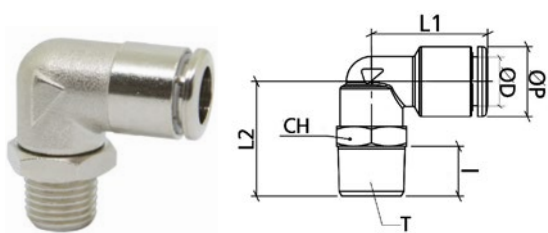
## Gomito maschio fisso conico BSPT nichelato



| CODICI     | ØD | T     | ØP | I  | L1   | L2    | GR.  |
|------------|----|-------|----|----|------|-------|------|
| OTRME04R01 | 4  | R1/8" | 10 | 8  | 18   | 15,5  | 11,0 |
| OTRME06R01 | 6  | R1/8" | 12 | 8  | 19,5 | 15,5  | 15,0 |
| OTRME06R02 |    | R1/4" | 12 | 10 | 20,5 | 19,25 | 25,0 |
| OTRME08R01 | 8  | R1/8" | 14 | 8  | 22,5 | 16,5  | 20,0 |
| OTRME08R02 |    | R1/4" | 14 | 10 | 22,5 | 19,25 | 24,0 |
| OTRME10R02 | 10 | R1/4" | 16 | 10 | 25,5 | 20,5  | 26,0 |

**OTRL-R**

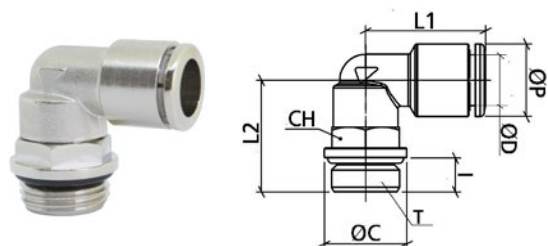
## Gomito maschio girevole conico BSPT nichelato



| CODICI    | ØD | T     | ØP | I  | L1   | L2   | CH | GR.  |
|-----------|----|-------|----|----|------|------|----|------|
| OTRLO4R01 | 4  | R1/8" | 10 | 8  | 19,5 | 20,5 | 13 | 20,0 |
| OTRLO4R02 |    | R1/4" | 10 | 10 | 19,5 | 23   | 14 | 23,0 |
| OTRLO6R01 | 6  | R1/8" | 12 | 8  | 21   | 20,5 | 13 | 20,0 |
| OTRLO6R02 |    | R1/4" | 12 | 10 | 21   | 23   | 14 | 24,0 |
| OTRLO8R01 | 8  | R1/8" | 14 | 8  | 23   | 20,5 | 13 | 22,0 |
| OTRLO8R02 |    | R1/4" | 14 | 10 | 23   | 23   | 14 | 26,0 |
| OTRLO8R03 |    | R3/8" | 14 | 11 | 23   | 24,5 | 17 | 32,0 |
| OTRL10R02 | 10 | R1/4" | 16 | 10 | 26   | 25,5 | 16 | 41,0 |
| OTRL10R03 |    | R3/8" | 16 | 11 | 26   | 27   | 17 | 45,0 |
| OTRL10R04 |    | R1/2" | 16 | 14 | 26   | 30   | 22 | 59,0 |
| OTRL12R02 | 12 | R1/4" | 19 | 10 | 31   | 28   | 20 | 56,0 |
| OTRL12R03 |    | R3/8" | 19 | 11 | 31   | 28,5 | 20 | 59,0 |
| OTRL12R04 |    | R1/2" | 19 | 14 | 31   | 31,5 | 22 | 70,0 |

**OTRL-G**

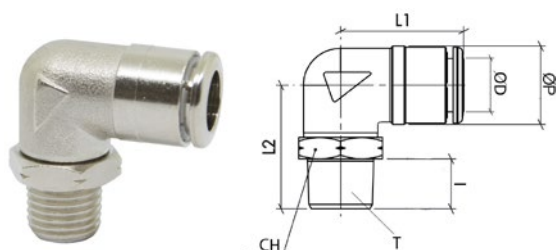
## Gomito maschio girevole cilindrico BSPP &amp; metrico nichelato



| CODICI    | ØD | T      | ØP | ØC | I   | L1   | L2   | CH | GR.  |
|-----------|----|--------|----|----|-----|------|------|----|------|
| OTRLO4M5  | 4  | M5X0,8 | 10 | 7  | 4   | 18   | 15   | 8  | 5,0  |
| OTRLO4G01 |    | G1/8"  | 10 | 13 | 5,5 | 19,5 | 19   | 13 | 19,0 |
| OTRLO4G02 |    | G1/4"  | 10 | 16 | 6,5 | 19,5 | 21,5 | 13 | 22,0 |
| OTRLO6M5  | 6  | M5X0,8 | 12 | 7  | 4   | 19,5 | 16   | 8  | 11,0 |
| OTRLO6G01 |    | G1/8"  | 12 | 13 | 5,5 | 21   | 19   | 13 | 20,0 |
| OTRLO6G02 |    | G1/4"  | 12 | 16 | 6,5 | 21   | 21,5 | 13 | 24,0 |
| OTRLO8G01 | 8  | G1/8"  | 14 | 13 | 5,5 | 23   | 19   | 13 | 22,0 |
| OTRLO8G02 |    | G1/4"  | 14 | 16 | 6,5 | 23   | 21,5 | 13 | 24,0 |
| OTRLO8G03 |    | G3/8"  | 14 | 20 | 7,5 | 23   | 23   | 13 | 28,0 |
| OTRL10G02 | 10 | G1/4"  | 16 | 16 | 6,5 | 26   | 23   | 16 | 35,0 |
| OTRL10G03 |    | G3/8"  | 16 | 20 | 7,5 | 26   | 26   | 16 | 43,5 |
| OTRL10G04 |    | G1/2"  | 16 | 25 | 9   | 26   | 27,5 | 16 | 52,0 |
| OTRL12G02 | 12 | G1/4"  | 19 | 16 | 6,5 | 31   | 25,5 | 20 | 55,0 |
| OTRL12G03 |    | G3/8"  | 19 | 20 | 7,5 | 31   | 26,5 | 20 | 55,0 |
| OTRL12G04 |    | G1/2"  | 19 | 25 | 9   | 31   | 29   | 20 | 63,0 |

## OTRL-N

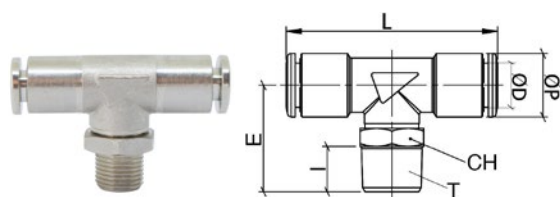
## Gomito maschio girevole NPT nichelato



| CODICI        | ØD    | T         | ØP    | I     | L1    | L2    | CH     | GR.  |
|---------------|-------|-----------|-------|-------|-------|-------|--------|------|
| OTRL532UF1032 | 5/32" | UNF 10/32 | 0,394 | 0,157 | 0,709 | 0,591 | 3/8"   | 11,0 |
| OTRL532N01    |       | N1/8"     | 0,394 | 0,334 | 0,768 | 0,827 | 9/16"  | 20,5 |
| OTRL532N02    |       | N1/4"     | 0,394 | 0,413 | 0,768 | 0,925 | 9/16"  | 24,0 |
| OTRL1-4N01    | 1/4"  | N1/8"     | 0,512 | 0,334 | 0,846 | 0,827 | 9/16"  | 23,0 |
| OTRL1-4N02    |       | N1/4"     | 0,512 | 0,413 | 0,846 | 0,925 | 9/16"  | 26,0 |
| OTRL516N01    | 5/16" | N1/8"     | 0,551 | 0,334 | 0,906 | 0,827 | 9/16"  | 23,0 |
| OTRL516N02    |       | N1/4"     | 0,551 | 0,413 | 0,906 | 0,925 | 9/16"  | 24,0 |
| OTRL516N03    |       | N3/8"     | 0,551 | 0,452 | 0,906 | 0,984 | 11/16" | 34,0 |
| OTRL38N01     | 3/8"  | N1/8"     | 0,650 | 0,334 | 1,004 | 0,945 | 11/16" | 40,0 |
| OTRL38N02     |       | N1/4"     | 0,650 | 0,413 | 1,004 | 1,024 | 11/16" | 43,0 |
| OTRL38N03     |       | N3/8"     | 0,650 | 0,452 | 1,024 | 1,083 | 11/16" | 47,0 |
| OTRL38N04     |       | N1/2"     | 0,650 | 0,570 | 1,004 | 1,201 | 7/8"   | 60,0 |
| OTRL1-2N02    | 1/2"  | N1/4"     | 0,768 | 0,413 | 1,220 | 1,122 | 7/8"   | 58,0 |
| OTRL1-2N03    |       | N3/8"     | 0,768 | 0,452 | 1,220 | 1,161 | 7/8"   | 61,0 |
| OTRL1-2N04    |       | N1/2"     | 0,768 | 0,570 | 1,220 | 1,280 | 7/8"   | 67,0 |

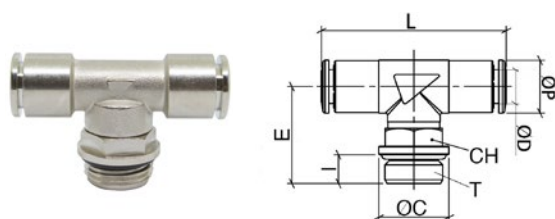
## OTRT-R

## T maschio girevole conico BSPT nichelato

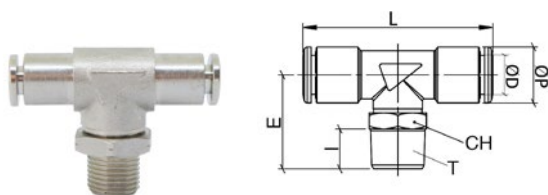


| CODICI    | ØD | T     | ØP | I  | E    | L    | CH | GR.  |
|-----------|----|-------|----|----|------|------|----|------|
| OTRT04R01 | 4  | R1/8" | 10 | 8  | 21   | 39   | 13 | 27,0 |
| OTRT04R02 |    | R1/4" | 10 | 10 | 23,5 | 39   | 14 | 31,0 |
| OTRT06R01 | 6  | R1/8" | 12 | 8  | 21   | 42   | 13 | 30,0 |
| OTRT06R02 |    | R1/4" | 12 | 10 | 23,5 | 42   | 14 | 34,0 |
| OTRT08R01 | 8  | R1/8" | 14 | 8  | 21   | 46,5 | 13 | 34,0 |
| OTRT08R02 |    | R1/4" | 14 | 10 | 23,5 | 46,5 | 14 | 37,0 |
| OTRT08R03 |    | R3/8" | 14 | 11 | 25   | 46,5 | 17 | 44,0 |
| OTRT10R02 | 10 | R1/4" | 16 | 10 | 25,5 | 52   | 16 | 55,0 |
| OTRT10R03 |    | R3/8" | 16 | 11 | 27   | 52   | 17 | 58,5 |
| OTRT10R04 |    | R1/2" | 16 | 14 | 30   | 52   | 22 | 73,0 |
| OTRT12R02 | 12 | R1/4" | 19 | 10 | 28   | 62   | 20 | 77,0 |
| OTRT12R03 |    | R3/8" | 19 | 11 | 28,5 | 62   | 20 | 80,0 |
| OTRT12R04 |    | R1/2" | 19 | 14 | 31,5 | 62   | 22 | 81,0 |



**OTRT-G****T maschio girevole cilindrico BSPP & metrico nichelato**

| CODICI    | ØD | T      | ØP | I   | E    | L    | CH | GR.  |
|-----------|----|--------|----|-----|------|------|----|------|
| OTRT04M5  | 4  | M5X0,8 | 10 | 4   | 17   | 32   | 8  | 17,0 |
| OTRT04G01 |    | G1/8"  | 10 | 5,5 | 19,5 | 39   | 13 | 29,0 |
| OTRT04G02 |    | G1/4"  | 10 | 6,5 | 22   | 39   | 13 | 29,0 |
| OTRT06M5  | 6  | M5X0,8 | 12 | 4   | 17   | 40   | 8  | 21,0 |
| OTRT06G01 |    | G1/8"  | 12 | 5,5 | 19,5 | 42   | 13 | 29,0 |
| OTRT06G02 |    | G1/4"  | 12 | 6,5 | 22   | 42   | 13 | 32,0 |
| OTRT08G01 | 8  | G1/8"  | 14 | 5,5 | 19,5 | 46,5 | 13 | 33,0 |
| OTRT08G02 |    | G1/4"  | 14 | 6,5 | 22   | 46,5 | 13 | 35,5 |
| OTRT08G03 |    | G3/8"  | 14 | 7,5 | 23,5 | 46,5 | 13 | 39,0 |
| OTRT10G02 | 10 | G1/4"  | 16 | 6,5 | 23   | 52   | 16 | 52,0 |
| OTRT10G03 |    | G3/8"  | 16 | 7,5 | 26   | 52   | 16 | 56,0 |
| OTRT10G04 |    | G1/2"  | 16 | 9   | 27,5 | 52   | 16 | 64,5 |
| OTRT12G02 | 12 | G1/4"  | 19 | 6,5 | 25,5 | 62   | 20 | 75,0 |
| OTRT12G03 |    | G3/8"  | 19 | 7,5 | 26,5 | 62   | 20 | 77,0 |
| OTRT12G04 |    | G1/2"  | 19 | 9   | 29   | 62   | 20 | 82,0 |

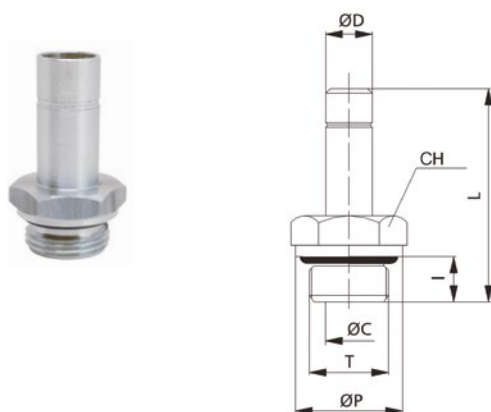
**OTRT-N****T maschio girevole NPT nichelato**

| CODICI        | ØD    | T         | ØP    | I     | E     | L     | CH     | GR.  |
|---------------|-------|-----------|-------|-------|-------|-------|--------|------|
| OTRT532UF1032 | 5/32" | UNF 10-32 | 0,393 | 0,157 | 0,669 | 1,259 | 3/8"   | 17,0 |
| OTRT532N01    |       | N1/8"     | 0,393 | 0,334 | 0,846 | 1,535 | 9/16"  | 28,0 |
| OTRT532N02    |       | N1/4"     | 0,393 | 0,413 | 0,944 | 1,535 | 9/16"  | 31,0 |
| OTRT1-4N01    | 1/4"  | N1/8"     | 0,551 | 0,334 | 0,846 | 1,673 | 9/16"  | 33,0 |
| OTRT1-4N02    |       | N1/4"     | 0,551 | 0,413 | 0,944 | 1,673 | 9/16"  | 36,0 |
| OTRT516N01    | 5/16" | N1/8"     | 0,551 | 0,334 | 0,846 | 1,830 | 9/16"  | 34,0 |
| OTRT516N02    |       | N1/4"     | 0,551 | 0,413 | 0,944 | 1,830 | 9/16"  | 37,0 |
| OTRT38N02     | 3/8"  | N1/4"     | 0,649 | 0,413 | 1,023 | 2,027 | 11/16" | 58,0 |
| OTRT38N03     |       | N3/8"     | 0,649 | 0,452 | 1,082 | 2,027 | 11/16" | 61,0 |
| OTRT1-2N02    | 1/2"  | N1/4"     | 0,767 | 0,413 | 1,122 | 2,440 | 7/8"   | 75,0 |
| OTRT1-2N03    |       | N3/8"     | 0,767 | 0,452 | 1,161 | 2,440 | 7/8"   | 78,0 |



## OTA-G

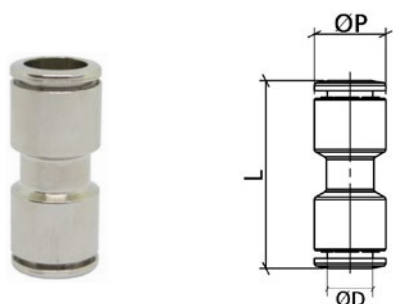
## Adattatore cilindrico BSPP &amp; metrico nichelato



| CODICI   | ØD | T     | ØP   | ØC   | I    | L    | CH | DN   | GR.  |
|----------|----|-------|------|------|------|------|----|------|------|
| OTA04M5  | 4  | M5    | 8,0  | 2,0  | 4,0  | 24,5 | 8  | 2,0  | 3,0  |
| OTA04M7  |    | M7    | -    | 4,0  | 6,0  | 26,0 | 10 | 2,0  | 5,0  |
| OTA04G01 |    | G1/8" | 13,0 | 6,0  | 6,0  | 28,0 | 13 | 2,0  | 10,0 |
| OTA04G02 |    | G1/4" | 16,0 | 7,5  | 8,0  | 30,0 | 13 | 2,0  | 11,0 |
| OTA06M5  | 6  | M5    | 8,0  | 2,6  | 4,0  | 26,0 | 8  | 2,6  | 5,0  |
| OTA04M7  |    | M7    | -    | 4,0  | 6,0  | 28,0 | 10 | 4,0  | 7,0  |
| OTA06G01 |    | G1/8" | 13,0 | 6,0  | 6,0  | 29,5 | 13 | 4,0  | 9,0  |
| OTA06G02 |    | G1/4" | 16,0 | 7,5  | 8,0  | 32,0 | 13 | 4,0  | 13,0 |
| OTA08G01 | 8  | G1/8" | 13,0 | 6,0  | 6,0  | 31,0 | 13 | 6,0  | 10,0 |
| OTA08G02 |    | G1/4" | 16,0 | 7,5  | 8,0  | 33,5 | 13 | 6,0  | 13,0 |
| OTA08G03 |    | G3/8" | 20,0 | 9,0  | 9,0  | 35,5 | 13 | 6,0  | 21,0 |
| OTA10G01 | 10 | G1/8" | 13,0 | 6,0  | 6,0  | 35,5 | 13 | 6,0  | 17,0 |
| OTA10G02 |    | G1/4" | 16,0 | 8,0  | 8,0  | 38,0 | 13 | 8,0  | 15,0 |
| OTA10G03 |    | G3/8" | 20,0 | 8,0  | 9,0  | 41,0 | 13 | 8,0  | 26,0 |
| OTA12G02 | 12 | G1/4" | 16,0 | 8,0  | 8,0  | 39,0 | 13 | 8,0  | 22,0 |
| OTA12G03 |    | G3/8" | 20,0 | 11,0 | 9,0  | 42,0 | 13 | 10,0 | 22,0 |
| OTA12G04 |    | G1/2" | 24,0 | 13,0 | 11,0 | 44,0 | 16 | 10,0 | 35,0 |

## OTRUC

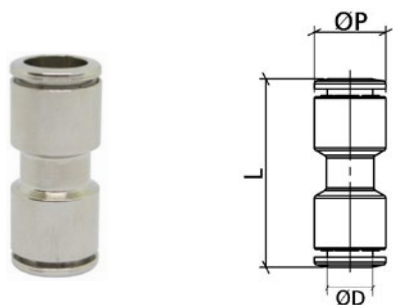
## Intermedio diritto per tubo metrico nichelato



| CODICI      | ØD | ØP | L    | GR.  |
|-------------|----|----|------|------|
| OTRUC04-532 | 4  | 10 | 29   | 9,0  |
| OTRUC0600   | 6  | 12 | 32   | 12,0 |
| OTRUC08-516 | 8  | 14 | 35,5 | 16,0 |
| OTRUC1000   | 10 | 16 | 39,5 | 21,0 |
| OTRUC1200   | 12 | 19 | 44   | 37,0 |

## OTRUC-N

## Intermedio diritto per tubo in pollici nichelato

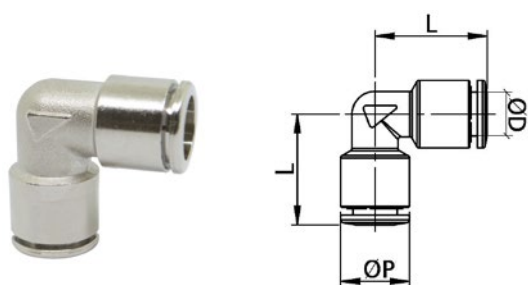


| CODICI      | ØD    | ØP    | L     | GR.  |
|-------------|-------|-------|-------|------|
| OTRUC04-532 | 5/32" | 0,393 | 1,141 | 9,0  |
| OTRUC1-4    | 1/4"  | 0,511 | 1,299 | 14,0 |
| OTRUC08-516 | 5/16" | 0,551 | 1,397 | 16,0 |
| OTRUC38     | 3/8"  | 0,629 | 1,515 | 21,0 |
| OTRUC1-2    | 1/2"  | 0,748 | 1,732 | 37,0 |



**OTRUL**

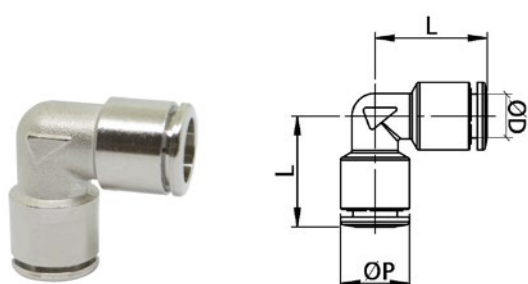
Intermedio a gomito per tubo metrico nichelato



| CODICI      | ØD | ØP | L    | GR.  |
|-------------|----|----|------|------|
| OTRUL04-532 | 4  | 10 | 18   | 12,0 |
| OTRUL0600   | 6  | 12 | 19,5 | 14,0 |
| OTRUL08-516 | 8  | 14 | 22,5 | 20,0 |
| OTRUL1000   | 10 | 16 | 25,5 | 26,0 |
| OTRUL1200   | 12 | 19 | 29   | 49,0 |

**OTRUL-N**

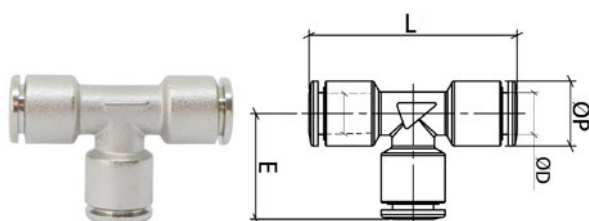
Intermedio a gomito per tubo in pollici nichelato



| CODICI      | ØD    | ØP    | L     | GR.  |
|-------------|-------|-------|-------|------|
| OTRUL04-532 | 5/32" | 0,393 | 0,708 | 12,0 |
| OTRUL1-4    | 1/4"  | 0,551 | 0,826 | 19,0 |
| OTRUL08-516 | 5/16" | 0,551 | 0,885 | 20,0 |
| OTRUL38     | 3/8"  | 0,649 | 0,984 | 28,0 |
| OTRUL1-2    | 1/2"  | 0,767 | 1,122 | 43,0 |

**OTRUT**

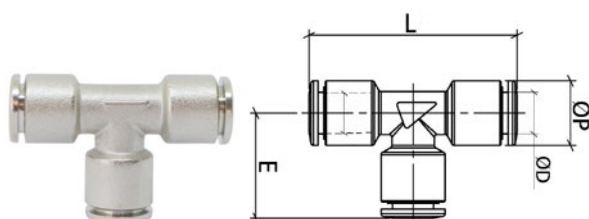
Intermedio a T per tubo metrico nichelato



| CODICI      | ØD | ØP | E    | L  | GR.  |
|-------------|----|----|------|----|------|
| OTRUT04-532 | 4  | 10 | 18   | 36 | 17,0 |
| OTRUT0600   | 6  | 12 | 19,5 | 39 | 20,0 |
| OTRUT08-516 | 8  | 14 | 22,5 | 45 | 30,0 |
| OTRUT1000   | 10 | 16 | 25,5 | 51 | 37,0 |
| OTRUT1200   | 12 | 19 | 29   | 58 | 68,0 |

**OTRUT-N**

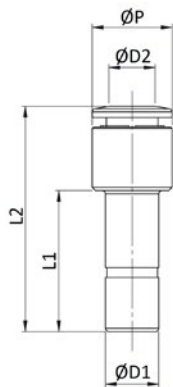
Intermedio a T per tubo in pollici nichelato



| CODICI      | ØD    | ØP    | E     | L     | GR.  |
|-------------|-------|-------|-------|-------|------|
| OTRUT04-532 | 5/32" | 0,393 | 0,708 | 1,417 | 16,9 |
| OTRUT1-4    | 1/4"  | 0,551 | 0,826 | 1,633 | 26,8 |
| OTRUT08-516 | 5/16" | 0,551 | 0,885 | 1,771 | 29,7 |
| OTRUT38     | 3/8"  | 0,649 | 0,984 | 1,988 | 38,3 |
| OTRUT1-2    | 1/2"  | 0,767 | 1,122 | 2,263 | 58,7 |



# OTRGJ



## Riduzione codolo - tubo metrico nichelato

| CODICI    | ØD1 | ØD2 | ØP | L1    | L2    | GR.  |
|-----------|-----|-----|----|-------|-------|------|
| OTRGJ0604 | 6   | 4   | 10 | 19,50 | 31    | 6,0  |
| OTRGJ0806 | 8   | 6   | 12 | 21,50 | 34,50 | 8,0  |
| OTRGJ1008 | 10  | 8   | 14 | 22,50 | 36,50 | 13,0 |
| OTRGJ1210 | 12  | 10  | 16 | 25,0  | 40,50 | 18,0 |



# **TUBO IN POLIURETANO A BASE POLIESTERE**

## **PLUS**

**ECCELLENTE FLESSIBILITÀ CHE  
PERMETTE UN OTTIMO RAGGIO DI  
CURVATURA**

**IDEALE PER APPLICAZIONI  
ROBOTICHE**

**LEGGERO, DUREVOLE, RESISTENTE  
ALL'ABRASIONE E AGLI AGENTI  
CHIMICI**

**IDEALE PER COLLEGAMENTI  
PNEUMATICI IN CONDIZIONI  
AMBIENTALI CRITICHE**

**AUTOMODELLANTE IN OGNI  
SITUAZIONE**

**DISPONIBILE IN 8 COLORI E  
FACILMENTE GESTIBILE GRAZIE ALLA  
BOBINA IN PLASTICA**

**SILICON FREE ADATTO NEI  
SETTORI DELLA VERNICIATURA E  
DELL'AUTOMOTIVE**

**TENUTA AL VUOTO GRAZIE ALLA  
SUPERFICIE PARTICOLARMENTE  
DURA**





p. 21 / **PUES**



p. 21 / **PUES-BX**



0°C ÷ +60°C



Pressione d'esercizio:

Vedi in tabella

Pressione di scoppio:

Vedi in tabella

Pressione negativa:

- 750 mmHg ( - 0,999 Bar )



Aria compressa e vuoto.

Da non utilizzare in applicazioni con acqua.

#### TOLLERANZE

da Ø3 a Ø8: ± 0,1

da Ø10 a Ø16: ± 0,15

#### DUREZZA

Shore 98 A



Poliuretano a base poliestere

#### CARATTERISTICHE

Il tubo in poliuretano a base poliestere ha un'alta flessibilità a basse temperature ed una buona resistenza all'usura ed alle sostanze chimiche.



Prodotti conformi alla direttiva 1907/2006

**RoHS2**

Prodotti conformi alla direttiva 2011/65/EU

**SILICON FREE**

## SCHEDA TECNICA

Tubo in poliuretano a base poliestere

| CODICE   | Ø ODxID | MINIMO RAGGIO DI CURVATURA (mm) | PRESSIONE D'UTILIZZO A 23°C (Bar) | PRESSIONE DI SCOPPIO A 23°C (Bar) | GR./MT | Q.TÀ PER MATASSA (mt) |
|----------|---------|---------------------------------|-----------------------------------|-----------------------------------|--------|-----------------------|
| PUES0302 | 3X2     | 8                               | 10,0                              | 30,0                              | 7,5    | 100                   |
| PUES0402 | 4X2     | 12                              | 10,0                              | 30,0                              | 10,0   | 100                   |
| PUES0425 | 4X2,5   | 12                              | 10,0                              | 30,0                              | 9,0    | 100                   |
| PUES0604 | 6X4     | 15                              | 8,5                               | 25,5                              | 18,0   | 100                   |
| PUES0805 | 8X5     | 20                              | 8,5                               | 25,5                              | 35,0   | 100                   |
| PUES0855 | 8X5,5   | 20                              | 8,5                               | 25,5                              | 38,0   | 100                   |
| PUES1065 | 10X6,5  | 25                              | 8,5                               | 25,5                              | 55,0   | 100                   |
| PUES1007 | 10X7    | 25                              | 8,0                               | 24,0                              | 49,0   | 100                   |
| PUES1208 | 12X8    | 35                              | 8,5                               | 25,5                              | 78,0   | 100                   |
| PUES1209 | 12X9    | 35                              | 7,0                               | 21,0                              | 61,0   | 100                   |
| PUES1410 | 14X10   | 45                              | 8,0                               | 18,0                              | 108,0  | 50                    |
| PUES1611 | 16X11   | 50                              | 8,0                               | 18,0                              | 132,0  | 50                    |
| PUES1612 | 16X12   | 60                              | 7,0                               | 16,0                              | 122,0  | 50                    |



## PUES



Tubo in poliuretano a base poliestere in bobine

| Misure<br>ODxID | <br>Azzurro | <br>Nero | <br>Rosso | <br>Giallo | <br>Verde | <br>Grigio | <br>Trasparente | <br>Azzurro<br>trasparente |
|-----------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 3X2             | PUES0302AZ                                                                                   |                                                                                           |                                                                                            |                                                                                             |                                                                                             |                                                                                               |                                                                                                    |                                                                                                               |
| 4X2             | PUES0402AZ                                                                                   |                                                                                           |                                                                                            |                                                                                             |                                                                                             |                                                                                               |                                                                                                    |                                                                                                               |
| 4X2,5           | PUES0425AZ                                                                                   | PUES0425NE                                                                                | PUES0425RO                                                                                 | PUES0425GL                                                                                  | PUES0425VD                                                                                  | PUES0425SL                                                                                    | PUES0425TR                                                                                         | PUES0425AZTR                                                                                                  |
| 6X4             | PUES0604AZ                                                                                   | PUES0604NE                                                                                | PUES0604RO                                                                                 | PUES0604GL                                                                                  | PUES0604VD                                                                                  | PUES0604SL                                                                                    | PUES0604TR                                                                                         | PUES0604AZTR                                                                                                  |
| 8X5             | PUES0805AZ                                                                                   |                                                                                           |                                                                                            | PUES0805GL                                                                                  |                                                                                             |                                                                                               |                                                                                                    |                                                                                                               |
| 8X5,5           | PUES0855AZ                                                                                   | PUES0855NE                                                                                | PUES0855RO                                                                                 | PUES0855GL                                                                                  | PUES0855VD                                                                                  | PUES0855SL                                                                                    | PUES0855TR                                                                                         | PUES0855AZTR                                                                                                  |
| 10X6,5          | PUES1065AZ                                                                                   |                                                                                           |                                                                                            | PUES1065GL                                                                                  |                                                                                             |                                                                                               |                                                                                                    |                                                                                                               |
| 10X7            | PUES1007AZ                                                                                   | PUES1007NE                                                                                | PUES1007RO                                                                                 | PUES1007GL                                                                                  | PUES1007VD                                                                                  |                                                                                               | PUES1007TR                                                                                         | PUES1007AZTR                                                                                                  |
| 12X8            | PUES1208AZ                                                                                   | PUES1208NE                                                                                |                                                                                            | PUES1208GL                                                                                  |                                                                                             |                                                                                               |                                                                                                    |                                                                                                               |
| 12X9            | PUES1209AZ                                                                                   | PUES1209NE                                                                                | PUES1209RO                                                                                 | PUES1209GL                                                                                  | PUES1209VD                                                                                  | PUES1209SL                                                                                    | PUES1209TR                                                                                         | PUES1209AZTR                                                                                                  |
| 14X10           | PUES1410AZ                                                                                   |                                                                                           |                                                                                            |                                                                                             |                                                                                             |                                                                                               |                                                                                                    |                                                                                                               |
| 16X11           | PUES1611AZ                                                                                   |                                                                                           |                                                                                            |                                                                                             |                                                                                             |                                                                                               |                                                                                                    |                                                                                                               |
| 16X12           | PUES1612AZ                                                                                   |                                                                                           |                                                                                            |                                                                                             |                                                                                             |                                                                                               |                                                                                                    |                                                                                                               |

## PUES-BX



Tubo in poliuretano a base poliestere in box

| Misure<br>ODxID | <br>Azzurro | <br>Nero | <br>Rosso | <br>Giallo | <br>Verde | <br>Grigio | <br>Trasparente | <br>Azzurro<br>trasparente |
|-----------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 3X2             | PUES0302AZ-25BX                                                                                |                                                                                             |                                                                                              |                                                                                               |                                                                                               |                                                                                                 |                                                                                                      |                                                                                                                 |
| 4X2             | PUES0402AZ-25BX                                                                                |                                                                                             |                                                                                              |                                                                                               |                                                                                               |                                                                                                 |                                                                                                      |                                                                                                                 |
| 4X2,5           | PUES0425AZ-25BX                                                                                | PUES0425NE-25BX                                                                             | PUES0425RO-25BX                                                                              | PUES0425GL-25BX                                                                               | PUES0425VD-25BX                                                                               | PUES0425SL-25BX                                                                                 | PUES0425TR-25BX                                                                                      | PUES0425AZTR-25BX                                                                                               |
| 6X4             | PUES0604AZ-25BX                                                                                | PUES0604NE-25BX                                                                             | PUES0604RO-25BX                                                                              | PUES0604GL-25BX                                                                               | PUES0604VD-25BX                                                                               | PUES0604SL-25BX                                                                                 | PUES0604TR-25BX                                                                                      | PUES0604AZTR-25BX                                                                                               |
| 8X5             | PUES0805AZ-25BX                                                                                |                                                                                             |                                                                                              | PUES0805GL-25BX                                                                               |                                                                                               |                                                                                                 |                                                                                                      |                                                                                                                 |
| 8X5,5           | PUES0855AZ-25BX                                                                                | PUES0855NE-25BX                                                                             | PUES0855RO-25BX                                                                              | PUES0855GL-25BX                                                                               | PUES0855VD-25BX                                                                               | PUES0855SL-25BX                                                                                 | PUES0855TR-25BX                                                                                      | PUES0855AZTR-25BX                                                                                               |
| 10X6,5          | PUES1065AZ-25BX                                                                                |                                                                                             |                                                                                              | PUES1065GL-25BX                                                                               |                                                                                               |                                                                                                 |                                                                                                      |                                                                                                                 |
| 10X7            | PUES1007AZ-25BX                                                                                | PUES1007NE-25BX                                                                             | PUES1007RO-25BX                                                                              | PUES1007GL-25BX                                                                               | PUES1007VD-25BX                                                                               |                                                                                                 | PUES1007TR-25BX                                                                                      | PUES1007AZTR-25BX                                                                                               |
| 12X8            | PUES1208AZ-25BX                                                                                | PUES1208NE-25BX                                                                             |                                                                                              | PUES1208GL-25BX                                                                               |                                                                                               |                                                                                                 |                                                                                                      |                                                                                                                 |
| 12X9            | PUES1209AZ-25BX                                                                                | PUES1209NE-25BX                                                                             | PUES1209RO-25BX                                                                              | PUES1209GL-25BX                                                                               | PUES1209VD-25BX                                                                               | PUES1209SL-25BX                                                                                 | PUES1209TR-25BX                                                                                      | PUES1209AZTR-25BX                                                                                               |
| 14X10           | PUES1410AZ-25BX                                                                                |                                                                                             |                                                                                              |                                                                                               |                                                                                               |                                                                                                 |                                                                                                      |                                                                                                                 |
| 16X11           | PUES1611AZ-25BX                                                                                |                                                                                             |                                                                                              |                                                                                               |                                                                                               |                                                                                                 |                                                                                                      |                                                                                                                 |
| 16X12           | PUES1612AZ-25BX                                                                                |                                                                                             |                                                                                              |                                                                                               |                                                                                               |                                                                                                 |                                                                                                      |                                                                                                                 |









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