



PNEUMAX

RACCORDERIA PNEUMATICA ***PNEUMATIC FITTINGS***

TECHNOLOGY & INNOVATION

IT-EN



SCHEDA TECNICA "TECNORAP"

I raccordi automatici della nostra serie TECNORAP sono realizzati in Italia, a garanzia di elevati standard di qualità secondo le normative ISO di riferimento, e rispondono, oltre ad avere un grado di protezione certificato IP68, alle seguenti specifiche tecniche e applicative:

FLUIDO

Aria compressa (per altri fluidi contattare il nostro Ufficio Tecnico)

APPLICAZIONI

Pneumatica, idraulica a bassa pressione, secondo normativa DIN 3861-3870. Idonei al funzionamento con il vuoto

TUBI CONSIGLIATI E TOLLERANZE AMMESSE

TPU (Poliuretano), PA11/PA12 (Poliammide), TPE (Polietilene), TCO (Copoliestere)

Diam. da 4 a 10 mm +/- 0,05 - Diam. da 12 mm +/- 0,1

TEMPERATURE E PRESSIONI

Le temperature e le pressioni dipendono generalmente dalle caratteristiche del tubo impiegato, e comunque si suggerisce di non superare i 12 bar e temperature comprese fra -20°C e +50°C. A pag. 38 sono riportati i dati di resistenza a trazione e i valori limite di utilizzo (Pressione e Temperature) relativi ai principali tubi commerciali. NOTA: Per dati più puntuali consultare il catalogo tecnico del proprio fornitore di tubi.

FILETTATURE

BSP cilindrica UNI-ISO 228, BSP conica UNI-ISO 7, Metrica ISO/R 262

MATERIALI UTILIZZATI

POM copolimero ISO1043-1 (corpo, spintore, distanziale, sottomolla)

IXEF, tecnopolimero caricato in vetro (corpi raccordi T01 e basi girevoli serie T22T)

Ottone nichelato UNI EN 12164 CW614N (astine e basi girevoli)

Acciaio Inox AISI 301 austenitico (pinza)

NBR 70 DWGV-EN549 UL157 (guarnizioni tenuta)

"TECNORAP" TECHNICAL SHEET

The TECNORAP series push-in fittings are produced in Italy according to the reference ISO norms as warranty of high quality level and answer, in addition of having an IP68 certified enclosure rating, to the followings technical specifications and applications:

FLUIDS

Compressed air (for different fluid pls contact our Technical Dept.)

APPLICATIONS

Pneumatic circuits, low pressure hydraulic applications, according to DIN 3861-3870 norms. Suitable for vacuum applications.

SUGGESTED TUBES AND TOLERANCES

TPU (Polyurethane), PA11/PA12 (Polyamide), TPE (Polyethylene), TCO (Copolyester)

Diam. between 4 and 10 mm +/- 0,05 - From 12 mm +/- 0,1

TEMPERATURES AND PRESSURES

Temperatures and pressures usually depend by the technical features of the employed tubes, anyway it is suggested a limit working pressure of 12 bar and a temperature range between -20°C and +50°C. At page 38 are indicated the load traction resistance values and the main working and breaking limit (Pressure and Temperature) of the main commercial tubing. NOTE: for more complete informations pls read the technical catalogue of your tube supplier.

THREAD TYPE

BSP parallell UNI-ISO 228, BSP tapered UNI-ISO 7, Metric ISO/R 262

MATERIALS

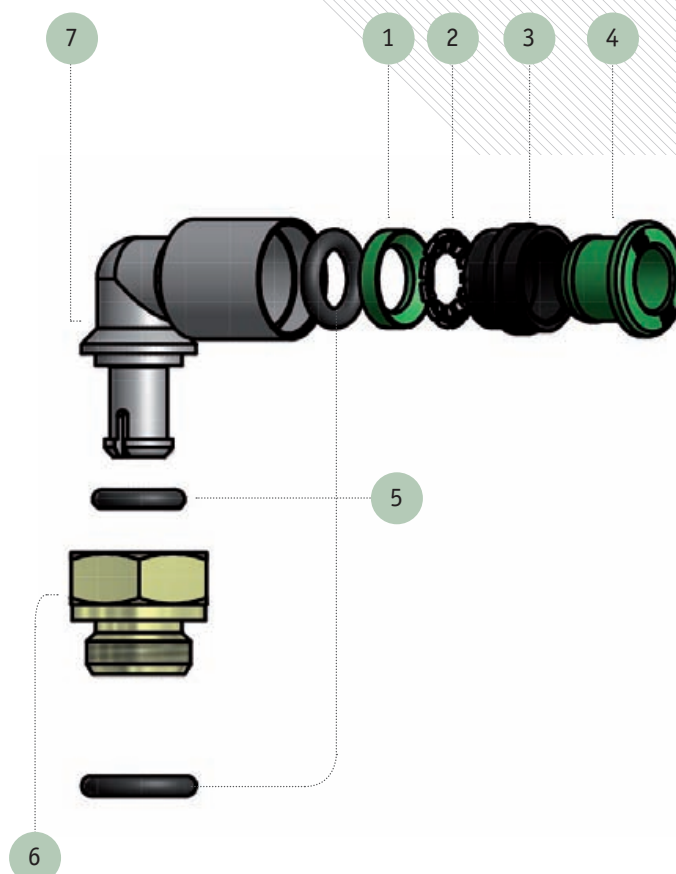
POM copolymer ISO1043-1 (body, sleeve, collar and back ring) IXEF, technopolymer glass-fiber reinforced (fittings body T01 and swivel bases T22T series)

Nickel plated brass UNI EN 12164 CW614N (swivel bases and stems)

Stainless steel AISI 301 austenitic (spring)

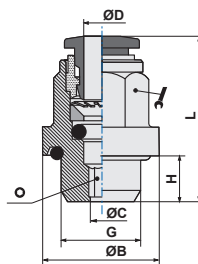
NBR 70 DWGV-EN549 UL157 (seals)

- 1 ANELLO DI SOSTEGNO
SUPPORTING RING
- 2 PINZA DI AGGRAFFAGGIO
CRIMPING GRIPPER
- 3 DISTANZIALE DI FERMO
LOCK RING
- 4 ANELLO SPINGITORE
THRUST SLEEVE
- 5 O-RING DI TENUTA
O-RING SEAL
- 6 BASE GIREVOLE
SWIVEL BASE
- 7 CORPO DEL RACCORDO
FITTING BODY

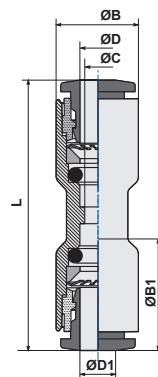


ART. T01 Dritto filetto cilindrico maschio con O-Ring
Straight male adaptor (parallel)

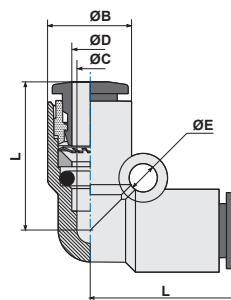
CODICE	ØD	G	ØC	ØB	H	L			
T0104M10	4	M10x1,5	2,5	14,0	7,5	21,3	10	2,5	50
T010418	4	1/8	2,5	14,0	5,5	19,0	10	2,5	50
T010414	4	1/4	2,5	17,5	6,5	20,8	10	2,5	50
T0106M10	6	M10x1,5	4,0	14,0	7,5	26,8	12	4,0	50
T010618	6	1/8	4,0	14,0	5,5	24,5	12	4,0	50
T010614	6	1/4	4,0	17,5	6,5	26,0	12	4,0	50
T0108M10	8	M10x1,5	6,0	14,0	7,5	28,1	14	5,0	50
T010818	8	1/8	5,0	14,0	5,5	25,7	14	5,0	50
T010814	8	1/4	6,0	17,5	6,5	27,2	14	6,0	50
T011014	10	1/4	7,0	17,5	6,5	28,7	18	7,0	50


ART. T03 Dritto innestabile
Straight connector

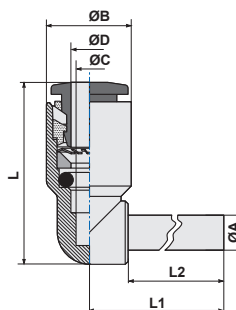
CODICE	ØD	ØD1	ØC	ØB	ØB1	L	
T030400	4	4	3	9,5	9,5	32,0	50
T030406	4	6	3	9,5	11,5	32,5	50
T030600	6	6	5	11,5	11,5	35,6	50
T030608	6	8	5	11,5	13,5	36,0	50
T030800	8	8	7	13,5	13,5	38,0	50
T030810	8	10	7	13,5	17,0	32,5	50
T031000	10	10	9	17,0	17,0	42,3	50
T031012	10	12	9	17,0	20,0	44,0	50
T031200	12	12	10	20,0	20,0	46,2	25


ART. T04 Gomito innestabile
Elbow connector

CODICE	ØD	ØC	ØB	L	ØE	
T040400	4	3	9,5	17,2	3,2	50
T040600	6	5	11,5	20,8	3,2	50
T040800	8	7	13,5	23,0	3,2	50
T041000	10	9	17,0	26,4	4,3	50
T041200	12	10	20,0	28,9	4,2	25


ART. T04L0 Gomito innestabile con codolo
Plug-in elbow connector

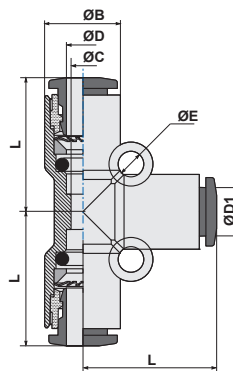
CODICE	ØD	ØC	ØB	L	L1	ØA	L2	
T0404L0	4	3	9,5	17,2	20,75	4	16,7	50
T0406L0	6	5	11,5	20,8	24,25	6	19,5	50
T0408L0	8	7	13,5	23,0	27,25	8	21,0	50
T0410L0	10	9	17,0	26,4	31,80	10	24,0	50
T0412L0	12	10	20,0	28,9	36,00	12	25,0	25



ART. **T05** T innestabile
T connector

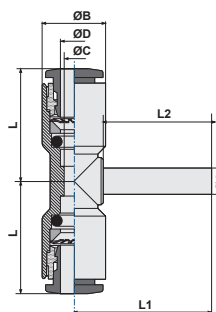
CODICE	ØD	ØD1	ØC	ØB	L		
T050400	4	4	3,0	9,5	17,2		50
T050604*	6	4	5,3	13,0	19,2		50
T050600	6	6	5,0	11,5	20,8		50
T050806*	8	6	7,1	14,4	22,7		25
T050800	8	8	7,0	13,5	23,0		50
T051008*	10	8	9,3	18,4	27,9		25
T051000	10	10	9,0	17,0	26,4		25
T051210*	12	10	10,0	21,0	29,9		10
T051200	12	12	10,0	20,0	28,9		10

* = di importazione - imported



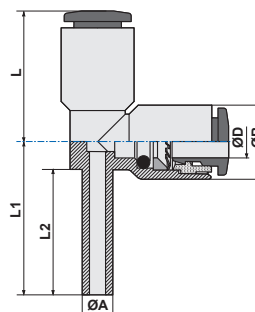
ART. **T05L0** T Innestabile con codolo centrale
Plug-in tee connector (center)

CODICE	ØD	ØC	ØB	L	L1	ØA	L2	
T0504L0	4	3	9,5	17,2	20,75	4	16,7	50
T0506L0	6	5	11,5	20,8	24,25	6	19,5	50
T0508L0	8	7	13,5	23,0	27,25	8	21,0	50
T0510L0	10	9	17,0	26,4	31,80	10	24,0	25
T0512L0	12	10	20,0	28,9	36,00	12	25,0	10



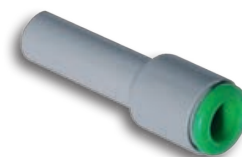
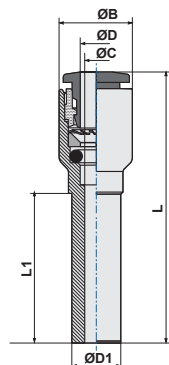
ART. **T05V0** T Innestabile con codolo laterale
Plug-in tee connector (lateral)

CODICE	ØD	ØB	L	L1	ØA	L2	
T0504V0	4	9,5	17,2	20,75	4	16,7	50
T0506V0	6	11,5	20,8	24,25	6	19,5	50
T0508V0	8	13,5	23,0	27,25	8	21,0	50
T0510V0	10	17,0	26,4	31,80	10	24,0	25
T0512V0	12	20,0	28,9	36,00	12	25,0	10

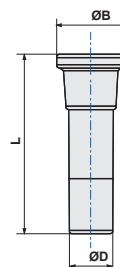


ART. T08 Riduzione
Reducer

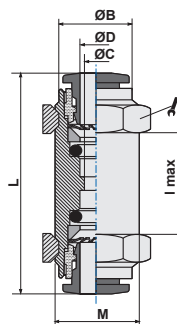
CODICE	ØD1	ØD	ØC	ØB	L	L1	
T080604	6	4	3	9,5	35,5	19,5	50
T080804	8	4	3	9,5	37,0	21,0	50
T081004	10	4	3	9,5	40,0	24,0	25
T081204	12	4	3	9,5	41,0	25,0	25
T080806	8	6	5	11,5	39,05	23,0	50
T081006	10	6	5	11,5	42,05	24,0	25
T081206	12	6	5	11,5	43,05	25,0	25
T081008	10	8	7	13,5	43,0	26,25	25
T081208	12	8	7	13,5	44,0	25,0	25
T081210	12	10	9	17,0	46,15	27,55	25


ART. T09 Tappo
Plug

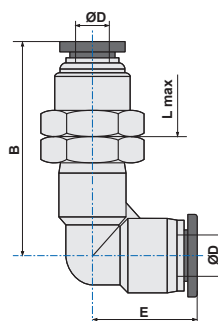
CODICE	ØD	ØB	L	
T090400	4	7,0	25,0	100
T090600	6	9,5	27,5	100
T090800	8	12,0	30,0	100
T091000	10	14,0	32,5	100
T091200	12	16,0	35,0	100


ART. T10 Passaparete
Bulkhead connector

CODICE	ØD	ØB	L	M	I max		
T100400	4	9,5	32,0	11x1	8	14	50
T100600	6	11,5	36,1	14x1	8	17	50
T100800	8	13,5	38,0	16x1	10	18	50
T101000	10	17,5	42,3	20x1	12	24	25
T101200	12	20,0	46,2	22x1	17	26	25


ART. T10L Passaparete a "L"
Elbow bulkhead

CODICE	ØD	M	B	E	H	L max	CH	
T10L0400	4	12x1	28,5	19,0	14	6	14	25
T10L0600	6	14x1	32,1	19,2	17	7	17	25
T10L0800	8	16x1	39,4	23,0	19	7,5	19	25
T10L1000	10	20x1	44,8	28,2	24	9,5	24	25
T10L1200	12	22x1	46,6	29,5	27	10	26	10

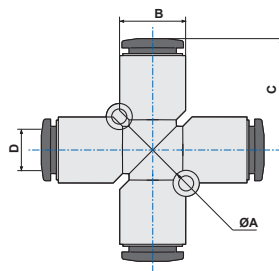


NOTA: articolo di importazione - NOTE: imported item

ART. T11 Croce intermedio
Cross connector

CODICE	ØD		ØB	ØA	C		
T110400	4		9,5	17,2	3		25
T110600	6		11,5	20,8	3		25
T110800	8		13,5	23,0	3		25
T111000*	10		17,0	6,5	3		10
T111200*	12		20,0	28,8	3		10

* = di importazione - imported

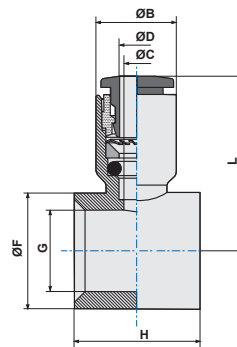


ART. T13 Anello semplice
Single banjo body

CODICE	ØD	G*	ØC	ØB	ØA	H	L	ØF	
T1304M5	4	M5	3	9,5	5	10	19,5	8,0	50
T130418	4	1/8	3	9,5	9,9	15	21,1	14,0	50
T130618	6	1/8	5	11,5	9,9	15	24,3	14,0	50
T130614	6	1/4	5	11,5	13,3	17	25,5	18,0	50
T130818	8	1/8	7	13,5	9,9	15	24,8	14,0	50
T130814	8	1/4	7	13,5	13,3	17	26,5	18,0	50
T130838	8	3/8	7	13,5	16,75	20	28,0	21,3	50
T131014	10	1/4	9	17,0	13,3	17	28,4	18,0	50
T131038	10	3/8	9	17,0	16,75	20	29,9	21,3	25
T131012	10	1/2	9	17,0	13,3	24	30,0	26,0	25
T131238	12	3/8	10	20,0	16,75	20	31,4	21,3	25
T131212	12	1/2	10	20,0	21	24	34,9	26,0	25
T13R04M5	4	M5	3	9,5	6	10	19,5	8	50
T13R06M5	6	M5	5	11,5	6	10	23	8	50

(*) G = filetto vite/asta
(*) G = steam thread

Vedi capitolo Astine pag. 39
See page 39 of Stems section

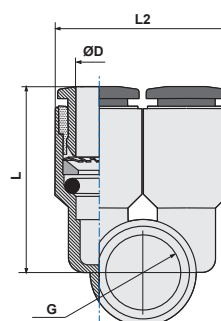


ART. T13B Anello semplice due vie
Single branch body

CODICE	ØD	G*		H	L	L2	
T13B04M5	4	M5		10	19,5	19	50
T13B0618	6	1/8		15	24,3	23	50
T13B0814	8	1/4		17	26,5	27	50
T13B1038	10	3/8		20	29,9	34	25
T13B1212	12	1/2		24	34,9	40	10

(*) G = filetto vite/asta
(*) G = steam thread
H = altezza sede asta - H = stem site lenght

Vedi capitolo Astine pag. 39
See page 39 of Stems section

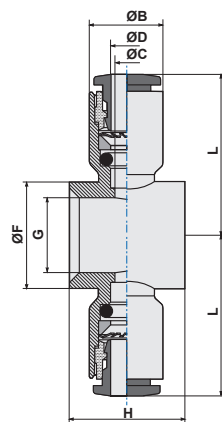


ART. T14
Anello doppio
Double banjo body

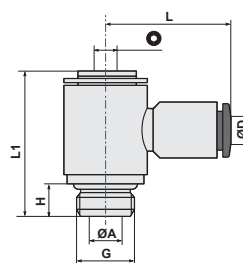
CODICE	ØD	G*	ØC	ØB	H	ØF	L	
T1404M5	4	M5	3	9,5	10	8,0	19,5	50
T140418	4	1/8	3	9,5	15	14,0	21,1	50
T140814	8	1/4	7	13,5	17	18,0	26,5	50
T140838	8	3/8	7	13,5	20	21,3	28,0	25
T141014	10	1/4	9	17,0	17	18,0	28,4	50
T141038	10	3/8	9	17,0	20	21,3	29,9	25
T141012	10	1/2	9	17,0	24	26,0	30,0	10
T141238	12	3/8	10	20,0	20	21,3	31,4	25
T141212	12	1/2	10	20,0	24	26,0	34,9	10

(*) G = filetto vite/asta
(*) G = steam thread

Vedi capitolo Aste pag. 39
See page 39 of Stems section

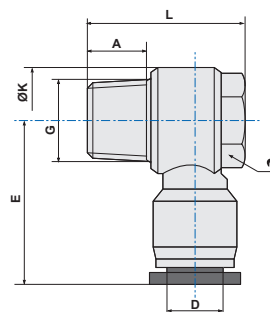
Art. disponibile fino ad esaurimento scorte
Item available while stocks last

ART. T15
Anello semplice girevole con asta
Complete single banjo (rotating under pressure)

CODICE	ØD	G	ØA	H	L1	L	Ø	
T1504M5	4	M5	2,0	4,0	17,8	19,5	2,5	50
T1504M6	4	M6	2,0	5,0	18,9	19,5	2,5	50
T150418	4	1/8	5,5	5,5	24,5	21,1	3,0	50
T150618	6	1/8	5,5	5,5	24,5	24,3	3,0	50
T150614	6	1/4	7,8	6,5	28,0	25,5	4,0	50
T150818	8	1/8	5,5	5,5	24,5	24,8	3,0	50
T150814	8	1/4	7,8	6,5	28,0	26,5	4,0	50
T150838	8	3/8	10,0	7,5	32,5	28,0	5,0	25
T151014	10	1/4	7,8	6,5	28,0	28,4	4,0	25
T151038	10	3/8	10,0	7,5	32,5	29,9	5,0	25
T151012	10	1/2	12,0	9,0	38,8	30,0	8,0	10
T151238	12	3/8	10,0	7,5	32,5	31,4	5,0	10
T151212	12	1/2	12,0	9,0	38,8	34,9	8,0	10


ART. T15C
Anello semplice girevole con asta conico
Complete single banjo tapered

CODICE	ØD	G	A	L	ØK	E		
T15C0418	4	1/8	7,5	23,0	14,4	23,5	12	50
T15C0618	6	1/8	7,5	23,0	14,4	24,0	12	50
T15C0614	6	1/4	9,5	26,5	18,3	25,4	14	50
T15C0638	6	3/8	10,5	32,0	22,0	29,5	19	25
T15C0818	8	1/8	7,5	23,0	14,4	28,9	14	50
T15C0814	8	1/4	9,5	26,5	18,3	29,1	14	50
T15C0838	8	3/8	10,5	32,0	22,0	30,0	19	25
T15C1014	10	1/4	9,5	26,5	18,3	33,0	14	25
T15C1038	10	3/8	10,5	32,0	22,0	33,5	19	25
T15C1012	10	1/2	13,5	38,5	28,0	36,5	24	10
T15C1238	12	3/8	10,5	32,0	22,0	35,8	19	10
T15C1212	12	1/2	13,5	38,5	28,0	36,8	24	10

NOTA: articolo di impotazione - NOTE: imported item

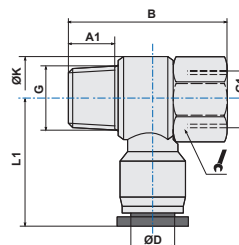


ART. **T15FC**

Anello semplice girevole con asta femmina conico
Female complete single banjo tapered

CODICE	ØD	G/G1	L1	A1	B	ØK		
T15FC0418	4	1/8	23,5	7,5	29,0	14,4	14	50
T15FC0414	4	1/4	25,5	9,5	35,0	18,3	17	50
T15FC0618	6	1/8	24,0	7,5	29,0	14,4	14	50
T15FC0614	6	1/4	25,4	9,5	35,0	18,3	17	50
T15FC0818	8	1/8	26,5	7,5	29,0	14,4	14	50
T15FC0814	8	1/4	28,9	9,5	35,0	18,3	17	50
T15FC0838	8	3/8	30,0	10,5	40,0	22,0	21	25
T15FC1014	10	1/4	33,0	9,5	35,0	22,0	21	25
T15FC1038	10	3/8	33,5	10,5	40,0	28,0	24	25
T15FC1012	10	1/2	36,5	13,5	47,5	18,3	17	10
T15FC1238	12	3/8	35,5	10,5	40,0	22,0	21	10
T15FC1212	12	1/2	36,5	13,5	47,5	28,0	24	10

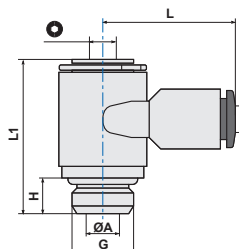
NOTA: articolo di impotazione
NOTE: imported item



ART. **T15B**

Anello due vie girevole con asta
Single branch universal male elbow

CODICE	ØD	G	ØA	H	L1	L	Ø	
T15B04M5	4	M5	2,0	4,0	17,8	19,5	2,5	50
T15B0618	6	1/8	5,5	5,5	24,5	24,3	3,0	50
T15B0814	8	1/4	7,8	6,5	28,0	26,5	4,0	50
T15B1038	10	3/8	10,0	7,5	32,5	29,9	5,0	25
T15B1212	12	1/2	12,0	9,0	38,8	34,9	8,0	10

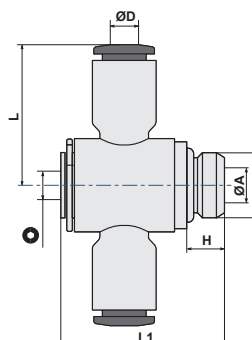


ART. **T16**

Anello doppio girevole con asta
Complete double banjo (rotating under pressure)

CODICE	ØD	G	ØA	H	L1	L	Ø	
T1604M5	4	M5	2,0	4,0	17,8	19,5	2,5	50
T160418	4	1/8	5,5	5,5	24,5	21,1	3,0	50
T160814	8	1/4	7,8	6,5	28,0	26,5	4,0	25
T160838	8	3/8	10,0	7,5	32,5	28,0	5,0	25
T161014	10	1/4	7,8	6,5	28,0	28,4	4,0	25
T161038	10	3/8	10,0	7,5	32,5	29,9	5,0	25
T161012	10	1/2	12,0	9,0	38,8	30,0	8,0	10
T161238	12	3/8	10,0	7,5	32,5	31,4	5,0	25
T161212	12	1/2	12,0	9,0	38,8	34,9	8,0	10

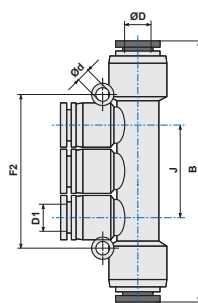
Art. disponibile fino ad esaurimento scorte
Item available while stocks last



ART. T18 Giunzione tripla intermedia
Triple branch union

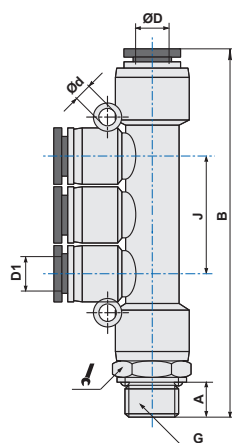
CODICE	ØD	ØD1	J	B	Ød	F2	
T180604	6	4	22	58,0	3,2	36	25
T180804	8	4	26	63,4	3,2	42	25
T180806	8	6	26	63,4	3,2	42	25
T181006	10	6	29	83,8	4,2	48	10
T181008	10	8	29	83,6	4,2	48	10

NOTA: articolo di impotazione - NOTE: imported item


ART. T18G Giunzione tripla filettata
Male triple branch

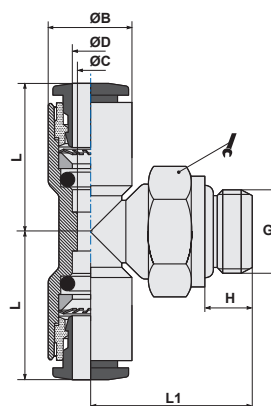
CODICE	ØD	D1	G	A	B	J		Ød	
T18G0418	4	4	1/8	5,5	68,0	26	14	3,2	25
T18G0414	4	4	1/4	7,5	70,0	26	17	3,2	25
T18G0438	4	4	3/8	7,5	70,0	26	20	3,2	10
T18G0618	6	6	1/8	5,5	68,0	26	14	3,2	25
T18G0614	6	6	1/4	7,5	70,0	26	17	3,2	25
T18G0638	6	6	3/8	7,5	70,5	26	20	3,2	10
T18G0612	6	6	1/2	9	73,0	26	24	3,2	10
T18G0818	8	8	1/8	5,5	87,0	29	14	3,2	10
T18G0814	8	8	1/4	7,5	89,0	29	17	3,2	10
T18G0838	8	8	3/8	7,5	89,5	29	20	3,2	10
T18G0812	8	8	1/2	9	92,5	29	24	3,2	10
T18G1018	10	10	1/8	5,5	95,5	37	14	4,2	10
T18G1014	10	10	1/4	7,5	98,0	37	17	4,2	10
T18G1038	10	10	3/8	7,5	98,5	37	20	4,2	10
T18G1012	10	10	1/2	9	101,5	37	24	4,2	10

NOTA: articolo di impotazione - NOTE: imported item


ART. T20 Raccordo a T centrale girevole
Swivel male stud tee parallel

CODICE	ØD	G	ØB	H	L	L1		
T2004M3	4	M3	9,5	3,0	17,2	15,0	8	50
T2004M5	4	M5	9,5	4,0	17,2	17,0	8	50
T200418	4	1/8	9,5	5,5	17,2	18,5	13	50
T200414	4	1/4	9,5	7,5	17,2	20,4	16	50
T200438*	4	3/8	11,0	7,5	19,0	27,3	20	25
T2006M5	6	M5	9,5	4,0	20,8	17,0	8	50
T200618	6	1/8	11,5	5,5	20,8	18,5	13	50
T200614	6	1/4	11,5	7,5	20,8	20,4	16	50
T200638*	6	3/8	13,0	7,5	19,5	27,5	20	25
T200612*	6	1/2	13,0	9	19,5	30,0	24	10
T200818	8	1/8	13,5	5,5	23,0	20,0	13	50
T200814	8	1/4	13,5	6,5	23,0	20,4	16	50
T200838	8	3/8	13,5	7,5	23,0	24,8	18	25
T200812*	8	1/2	15,0	9	22,5	32,5	24	10
T201018*	10	1/8	19,0	5,5	28,5	32,3	17	25
T201014	10	1/4	17,0	7,5	26,4	23,2	16	25
T201038*	10	3/8	19,0	10,5	28,5	38,0	17	25
T201012	10	1/2	17,0	9	26,4	31,1	21	10
T201218	12	1/8	21,5	5,5	29,5	33,5	27	10
T201214*	12	1/4	21,5	7,5	29,5	38,5	21	10
T201238	12	3/8	20,0	7,5	28,9	26,3	18	10
T201212	12	20	20,0	9	28,9	29,3	21	10

* = di importazione - imported

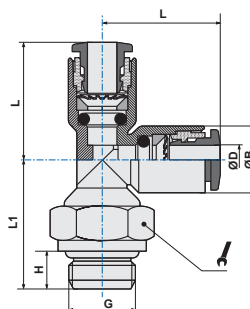


ART. T21

Raccordo a T laterale girevole
Swivel male branch tee parallel

CODICE	ØD	G	ØB	H	L	L1		
T2104M3	4	M3	9,5	3	12,2	15,0	8	50
T2104M5	4	M5	9,5	4	12,2	17,0	8	50
T210418	4	1/8	9,5	5,5	17,2	18,5	13	50
T210414	4	1/4	9,5	7,5	17,2	20,4	16	50
T210438*	4	3/8	11,0	7,5	19	27,3	20	25
T210618	6	1/8	11,5	5,5	20,8	18,5	13	50
T210614	6	1/4	11,5	7,5	20,8	20,4	16	50
T210638*	6	3/8	13,0	7,5	19,7	27,5	20	25
T210612*	6	1/2	13,0	9	19,7	30	24	10
T210818	8	1/8	13,5	5,5	23	20	13	50
T210814	8	1/4	13,5	7,5	23	20,4	16	50
T210838	8	3/8	13,5	9	23	24,8	18	25
T210812*	8	1/2	14,4	9	22,5	32,5	24	10
T211018*	10	1/8	19,0	5,5	27,8	32,5	17	25
T211014*	10	1/4	17,0	6,5	26,4	23,2	16	25
T211038*	10	3/8	19,0	7,5	28,5	38,5	17	25
T211012*	10	1/2	17,0	9	26,4	31,1	21	10
T211218*	12	1/8	21,0	5,5	29,5	33,5	21	25
T211214*	12	1/4	21,0	7,5	29,5	36	21	10
T211238*	12	3/8	20,0	7,5	28,9	26,3	18	10
T211212*	12	1/2	20,0	9	28,9	31,1	21	10

* = di importazione - imported

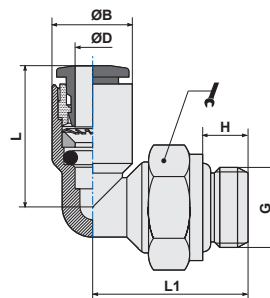


ART. T22

Gomito girevole filetto cilindrico maschio con O-Ring
Swivel elbow male adaptor parallel

CODICE	ØD	G	ØB	H	L	L1		
T2204M3	4	M3	9,5	3	17,2	17	8	50
T2204M5	4	M5	9,5	4	17,2	17	8	100
T220418	4	1/8	9,5	5,5	17,2	18,5	13	100
T220414	4	1/4	9,5	6,5	17,2	20,4	16	100
T2206M5	6	M5	11,5	4	20,8	17	8	100
T220618	6	1/8	11,5	5,5	20,8	18,5	13	100
T220614	6	1/4	11,5	6,5	20,8	20,4	16	100
T220818	8	1/8	13,5	5,5	23	20	13	100
T220814	8	1/4	13,5	6,5	23	20,4	16	100
T220838	8	3/8	13,5	7,5	23	24,8	18	50
T221018*	10	1/8	19	5,5	27,8	26	14	50
T221014	10	1/4	17	6,5	26,4	23,2	16	50
T221038	10	3/8	17	7,5	26,4	24,8	18	50
T221012	10	1/2	17	9	26,4	31,1	21	25
T221214	12	1/4	20	6,5	28,9	24,2	16	25
T221238	12	3/8	20	7,5	28,9	26,3	18	25
T221212	12	1/2	20	9	28,9	31,1	21	25

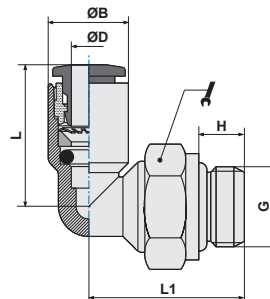
* = di importazione - imported



ART. T22T

Gomito girevole maschio in tecnopolimero con O-Ring
Swivel elbow technopolymer male adaptor

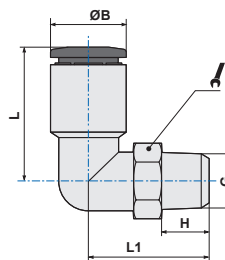
CODICE	ØD	G	ØB	H	L	L1		
T22T0418	4	1/8	9,5	5,5	17,2	18,5	14	100
T22T0414	4	1/4	9,5	6,5	17,2	20,4	16	100
T22T0618	6	1/8	11,5	5,5	20,8	18,5	14	100
T22T0614	6	1/4	11,5	6,5	20,8	20,4	16	100
T22T0818	8	1/8	13,5	5,5	23,0	20,0	14	100
T22T0814	8	1/4	13,5	6,5	23,0	20,4	16	50
T22T1014	10	1/4	17,0	6,5	26,4	23,2	16	50
T22T1214	12	1/4	20,0	6,5	28,9	24,2	16	50



ART. T22C Gomito girevole filetto conico
Swivel elbow male adaptor tapered

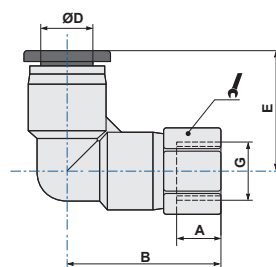
CODICE	ØD	G	ØB	H	L	L1		
T22C0418	4	1/8	11,5	7,5	17,2	20,5	13	100
T22C0414	4	1/4	11,5	9,5	19,0	20,0	14	100
T22C0438	4	3/8	11,5	10,5	19,0	21,0	17	25
T22C0618	6	1/8	13,5	7,5	19,2	21,5	13	100
T22C0614	6	1/4	13,5	9,5	19,2	21,0	14	100
T22C0638	6	3/8	13,5	10,5	19,2	22,0	17	25
T22C0612	6	1/2	13,5	13,5	19,2	25,5	21	10
T22C0818	8	1/8	15,0	7,5	22,5	22,2	13	100
T22C0814	8	1/4	15,0	9,5	22,5	21,7	14	100
T22C0838	8	3/8	15,0	10,5	23,0	22,7	17	50
T22C0812	8	1/2	15,0	13,5	22,5	26,2	21	10
T22C1018	10	1/8	19,0	7,5	27,8	26,9	13	50
T22C1014	10	1/4	19,0	9,5	27,8	28,4	14	50
T22C1038	10	3/8	19,0	10,5	27,8	24,7	17	50
T22C1012	10	1/2	19,0	13,5	27,8	28,2	21	25
T22C1218	12	1/8	21,5	7,5	29,5	28,2	15	25
T22C1214	12	1/4	21,5	9,5	29,5	29,7	15	25
T22C1238	12	3/8	21,5	10,5	29,5	26,0	21	50
T22C1212	12	1/2	21,5	13,5	29,5	29,5	21	25

NOTA: articolo di importazione - NOTE: imported item


ART. T22F Gomito girevole femmina
Female swivel elbow adaptor

CODICE	ØD	G	A	B	E		
T22F04M5	4	M5	5,5	20,5	19,0	10	50
T22F0418	4	1/8	8,5	24,0	19,0	14	50
T22F0414	4	1/4	11,0	27,0	19,0	17	50
T22F06M5	6	M5	6,0	20,7	19,2	12	50
T22F0618	6	1/8	8,5	24,2	19,2	14	50
T22F0614	6	1/4	11,0	27,2	19,2	17	50
T22F0638	6	3/8	12,0	28,7	19,2	21	25
T22F0818	8	1/8	8,0	27,0	23,0	14	50
T22F0814	8	1/4	11,0	30,5	23,0	17	50
T22F0838	8	3/8	12,0	32,0	23,0	21	25
T22F1014	10	1/4	11,0	34,3	28,2	17	25
T22F1038	10	3/8	12,0	35,8	28,2	21	25
T22F1012	10	1/2	14,0	38,8	28,2	24	10
T22F1214	12	1/4	11,0	37,0	29,5	21	25
T22F1238	12	3/8	12,0	38,0	29,5	21	25
T22F1212	12	1/2	14,0	40,5	29,5	24	10

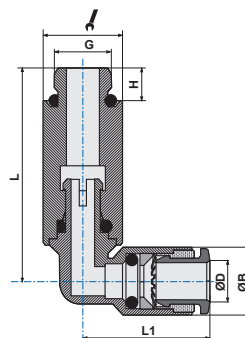
NOTA: articolo di importazione - NOTE: imported item



ART. T22L Gomito girevole cilindrico lungo
Swivel longer elbow male adaptor parallel

CODICE	ØD	G	ØB	H	L	L1		
T22L04M5*	4	M5	11,0	3,5	34,5	19,0	10	25
T22L0418	4	1/8	9,5	6,0	35,7	17,2	13	25
T22L06M5*	6	M5	13,0	3,5	36,4	19,2	12	25
T22L0618	6	1/8	11,5	6,0	35,7	20,8	13	25
T22L0818	8	1/8	13,5	6,0	38,0	23,0	13	25
T22L0814*	8	1/4	15,0	7,5	44,3	22,5	17	25

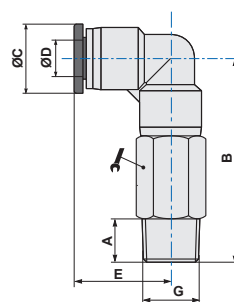
* = di importazione - imported



ART. T22LC Gomito girevole conico lungo
Swivel longer elbow male adaptor tapered

CODICE	ØD	G	A	B	ØC	E		
T22LC0418	4	1/8	7,5	37,0	11,0	19,0	10	25
T22LC0414	4	1/4	9,5	40,0	11,0	19,0	14	25
T22LC0618	6	1/8	7,5	39,7	13,0	19,2	12	25
T22LC0614	6	1/4	9,5	42,2	13,0	19,2	14	25
T22LC0638	6	3/8	10,5	43,7	13,0	19,2	17	25
T22LC0818	8	1/8	7,5	44,8	14,4	23,0	14	25
T22LC0814	8	1/4	9,5	46,8	14,4	23,0	17	25
T22LC0838	8	3/8	10,5	48,5	14,4	23,0	17	25
T22LC1018	10	1/8	7,5	54,3	18,5	28,2	17	25
T22LC1014	10	1/4	9,5	56,3	18,5	28,2	17	25
T22LC1038	10	3/8	10,5	57,3	18,5	28,2	17	25
T22LC1012	10	1/2	13,5	60,8	18,5	28,2	21	10
T22LC1214	12	1/4	9,5	61,5	21,0	29,5	21	10
T22LC1238	12	3/8	10,5	62,5	21,0	29,5	21	10
T22LC1212	12	1/2	13,5	65,5	21,0	29,5	21	10

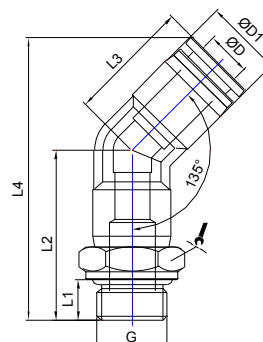
NOTA: articolo di importazione - NOTE: imported item



ART. T45 Gomito girevole cilindrico a 45°
Swivel 45° elbow male adaptor parallel

CODICE	ØD	G	L1	L2	L3	L4	ØD1		
T4504M5	4	M5	3,5	22,5	19	39,5	11,3	10	1
T450418	4	G1/8	5,5	25,5	19	42,5	11,3	14	1
T450618	6	G1/8	5,5	25,5	19,2	43,5	13,3	14	1
T450614	6	G1/4	7,5	28	19,2	46	13,3	17	1
T450818	8	G1/8	5,5	29	22,5	49,5	14,8	14	1
T450814	8	G1/4	7,5	31,5	22,5	52	14,8	17	1
T451014	10	G1/4	7,5	36	27,8	62,5	18,7	17	1
T451038	10	G3/8	7,5	36	27,8	62,5	18,7	20	1

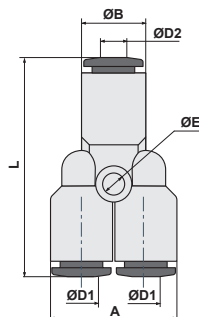
NOTA: articolo di importazione - NOTE: imported item



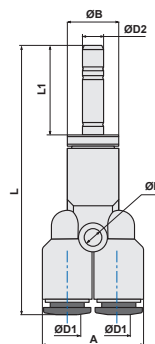
ART. T23 Y innestabile
Y connector

CODICE	ØD1	ØD2	ØE	ØB	A	L		
T230400	4	4	2,40	9,5	19	33,0		50
T230406	4	6	2,40	11,5	19	35,8		50
T230600	6	6	2,60	11,5	23	38,6		50
T230608	6	8	3,20	13,5	23	39,8		50
T230800	8	8	2,75	16,5	27	42,5		50
T230810	8	10	3,20	17,0	27	44,4		25
T231000	10	10	4,30	20,0	34	50,8		25
T231012*	10	12	4,30	20,0	34	50,8		10
T231200	12	12	4,20	20,0	40	53,2		10

* = di importazione - imported

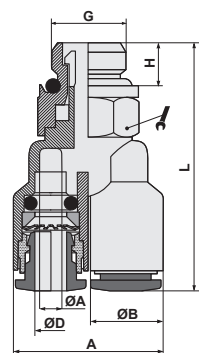

ART. T23L0 Y innestabile
Y connector

CODICE	ØD1	ØD2	ØB	A	ØE	L	L1	
T2304L0	4	4	9,5	19	2,40	50,0	16,7	50
T2306L0	6	6	11,5	23	2,60	58,1	19,5	50
T2308L0	8	8	13,5	27	2,75	63,5	21,0	50
T2310L0	10	10	17,0	34	4,30	74,8	24,0	25
T2312L0	12	12	20,0	40	4,20	78,2	25,0	10


ART. T23G Y innestabile filetto cilindrico con O-Ring
Y connector with swivel parallel male adapter

CODICE	ØD	G	ØA	ØB	H	A	L		
T23G04M5*	4	M5	2,0	9,5	4,0	19,0	39,1	10	50
T23G0418	4	1/8	3,0	9,5	5,5	19,0	20,5	13	50
T23G0414	4	1/4	3,0	11,0	7,5	22,0	45,5	17	50
T23G0438*	4	3/8	3,0	11,0	7,5	22,0	46,0	20	25
T23G0618	6	1/8	5,0	11,5	5,5	23,0	34,8	13	50
T23G0614	6	1/4	5,0	11,5	6,5	23,0	36,4	16	50
T23G0638*	6	3/8	5,0	13,0	7,5	26,0	47,2	20	25
T23G0818	8	1/8	7,0	13,5	5,5	27,0	37,5	13	50
T23G0814	8	1/4	7,0	13,5	6,5	27,0	38,6	16	50
T23G0838*	8	3/8	6,2	14,4	7,5	29,4	50,5	20	25
T23G1014*	10	1/4	8,2	18,4	7,5	36,4	58,9	17	25
T23G1038*	10	3/8	8,2	18,4	7,5	36,4	58,9	20	25
T23G1012*	10	1/2	8,2	18,4	10	36,4	62,4	24	10
T23G1214*	12	1/4	9,5	21,0	7,5	42,0	62,3	21	10
T23G1238*	12	3/8	9,5	21,0	7,5	42,0	62,3	21	10
T23G1212*	12	1/2	9,5	21,0	10	42,0	65,3	24	10

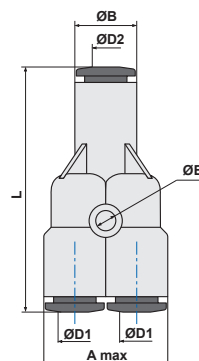
* = di importazione - imported



ART. T24 Y doppio innestabile
Double Y connector

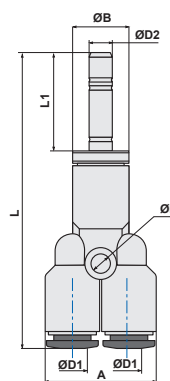
CODICE	ØD1	ØD2	ØE	ØB	A max	L		
T240400	4	4	3,2	9,5	20,2	34,5		25
T240406	4	6	3,2	13,0	20,8	35,5		25
T240408*	4	8	3,2	14,5	22,2	38,5		25
T240600	6	6	3,2	11,5	23,9	39,6		25
T240608*	6	8	3,2	13,5	26,15	41,8		25
T240800*	8	8	3,5	15,0	28,0	42,0		25
T240810	8	10	3,2	17,0	28,0	46,5		25

* = di importazione - imported



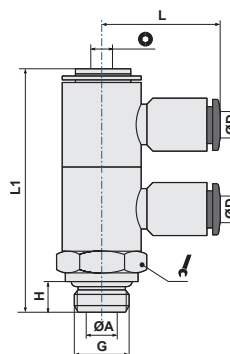
ART. T24L0 Y doppio innestabile
Double Y connector

CODICE	ØD1	ØD2	ØE	ØB	A	L	L1	
T2404L0	4	4	2,40	9,5	19	51,2	16,7	25
T2406L0	6	6	2,60	11,5	23	59,1	19,5	25
T2408L0	8	8	2,75	13,5	27	67,5	21,0	25



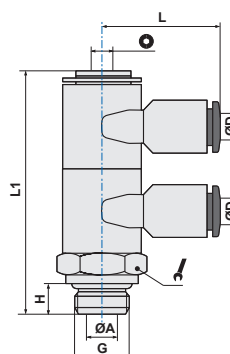
ART. T33 Doppio anello semplice girevole con asta
Swivel double banjo stem

CODICE	ØD	G	ØA	H	L1	L	Ø		
T3304M5	4	M5	2,0	4,0	28,0	19,5	2,5	14	25
T330418	4	1/8	5,5	5,5	43,3	21,1	3	14	25
T330618	6	1/8	5,5	5,5	43,3	24,3	3	14	25
T330614	6	1/4	7,8	6,5	50,0	25,5	4	18	25
T330818	8	1/8	5,5	5,5	43,3	24,8	3	14	25
T330814	8	1/4	7,8	6,5	50,0	26,5	4	18	25
T331014	10	1/4	7,8	6,5	50,0	28,4	4	18	25



ART. T33B Doppio anello due vie girevole con asta
Double branch universal male elbow

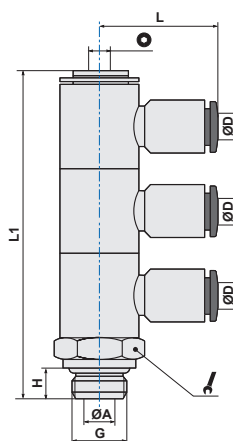
CODICE	ØD	G	ØA	H	L1	L	Ø		
T33B04M5	4	M5	2,0	4,0	28,0	19,5	2,5	14	10
T33B0618	6	1/8	5,5	5,5	43,3	24,3	3	14	10
T33B0814	8	1/4	7,8	6,5	50,0	26,5	4	18	10



ART. T34

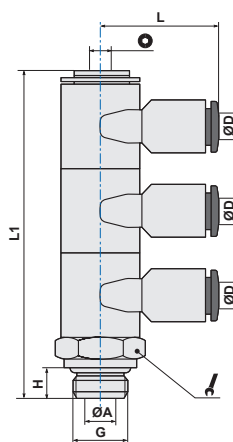
Triplo anello semplice girevole con asta
Swivel triple banjo stem

CODICE	ØD	G	ØA	H	L1	L	Ø		
T340418	4	1/8	5,5	5,5	58,4	21,1	3	14	10
T340618	6	1/8	5,5	5,5	58,4	24,3	3	14	10
T340818	8	1/8	5,5	5,5	58,4	24,8	3	14	10
T340614	6	1/4	7,8	6,5	67	25,5	4	18	10
T340814	8	1/4	7,8	6,5	67	26,5	4	18	10
T341014	10	1/4	7,8	6,5	67	28,4	4	18	10


ART. T34B

Triplo anello due vie girevole con asta
Triple branch universal male elbow

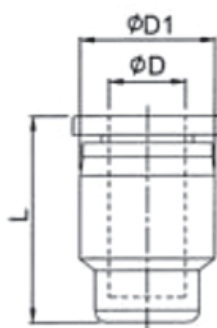
CODICE	ØD	G	ØA	H	L1	L	Ø		
T34B0618	6	1/8	5,5	5,5	58,4	24,3	3	14	10
T34B0814	8	1/4	7,8	6,5	67	26,5	4	18	10


ART. T90

Tappo femmina
Tube Blanking Cap

CODICE	ØD	ØD1	L				
T900400	4	11,5	17,5				100
T900600	6	13,5	17,7				100
T900800	8	15	21,3				100
T901000	10	19	25				50
T901200	12	21,5	26				50

Adattabile a tutti i raccordi della serie Tecno-RAP
Suitable for all Tecno-RAP fitting series



INFORMAZIONI TECNICHE AGGIUNTIVE

Ogni lotto della serie Tecno-RAP viene sottoposto a controlli cosiddetti "rompilotto" durante tutto il ciclo produttivo, che comprendono, oltre all'osservazione estetica, la verifica di funzionalità e di eventuali perdite, un test in pressione a 8 bar per verificarne la conformità anche in condizioni di utilizzo nominali. Successivamente viene eseguito un test a campione di rottura (simulazione scoppio a 50 bar di pressione) con una macchina dedicata che sollecita il raccordo a trazione. Di seguito viene indicata la forza minima di strappo (in Newton) ammessa per ogni diametro:

Diam. tubo <i>Tube diam.</i>	Forza di strappo <i>Breaking load</i>
Ø4	63 N
Ø6	141 N
Ø8	251 N
Ø10	393 N
Ø12	566 N

Nota importante:

I valori indicati si riferiscono alla tenuta della pinza di aggraffaggio, "core part" sia del raccordo Tecno-RAP in tecnopolimero, che del RAP in ottone, per cui omogenei. I valori di rottura sperimentali misurati sono stati, in base al diametro, anche da 1,2 a 2,5 volte superiori.

Informazioni complementari sulle temperature di utilizzo:

Pressione di esercizio e pressione di scoppio (bar) alle diverse temperature <i>Working pressure and breaking pressure (bar) at different temperatures</i>						
Esempio <i>Example</i>	T-20°C	T-20°C	T+23°C	T+23°C	T+60°C	T+60°C
Tubo 6x4 colorato <i>Tube 6x4 colored</i>	P esercizio bar <i>working P bar</i>	P scoppio bar <i>breaking P bar</i>	P esercizio bar <i>working P bar</i>	P scoppio bar <i>breaking P bar</i>	P esercizio bar <i>working P bar</i>	P scoppio bar <i>breaking P bar</i>
TPU	18,7	74,8	10,0	40,0	5,2	20,8
PA11	37,4	149,6	20,0	80,0	10,4	41,6
PA12	48,6	168,3	26,0	90,0	10,4	36,0
PE	18,7	74,8	10,0	40,0	5,0	20,0

Tutte le necessarie valutazioni sull'utilizzo dei raccordi in condizioni di esercizio differenti da quelle suggerite nella scheda tecnica iniziale debbono anche tenere conto, con riferimento alle temperature, dei dati nominali relativi al tubo utilizzato e del limite imposto dal componente più critico. Le resine acetaliche, ad esempio, con cui sono realizzati alcuni particolari, e gli stessi o-ring, suggeriscono campi di utilizzo ben precisi. Specificatamente agli o-ring in NBR il fornitore dichiara una forbice compresa fra -25°C e +100°C.

ADDITIONAL TECHNICAL INFORMATION

Each Tecno-RAP production batch is tested according to severe cyclics "lot breaker" controls along all the production period, which include shape observation, leakage verification, functionality, at the working pressure of 8 bar.

Then all samples taken from the lot are tested by a traction machine which simulate a breaking pressure of 50 bar.

Here below are indicated the traction loads (in Newton) for each size:

Important note:

The values refer to the resistance of the crimping gripper, "core part" of both fittings, the technopolymer Tecno-RAP and the brass RAP, whereby homogeneous. The breaking experimental values measured, according to the diameter, were from 1.2 to 2.5 times higher.

Additional information regarding the working temperatures:

Further to all the necessary assessments on the use of the fittings in operating conditions different from how suggested in the initial technical sheet must be considered, with reference to temperatures, the nominal data regarding the type of the used tube and the limit imposed by the most critical component. Acetal resins with which some components are made, and the O-ring itself, suggest precise range of usage. Specifically to the NBR O-rings the supplier declares a fork between -25°C and +100°C.



PNEUMAX

PNEUMAX S.p.A.

Via Cascina Barbellina, 10
24050 Lurano (BG) - Italy
P. +39 035 41 92 777
info@pneumaxspa.com
www.pneumaxspa.com

*Sede produttiva***TITAN ENGINEERING S.p.A.**

Via dei Cerri, 16/18
47899 Zona Artigianale Ciarulla RSM
(C.O.E. SM 04813)
P. +39 0549 96 11 21
info@titanengineering.sm
www.titanengineering.sm