LDA

Push-in fittings & Plastic Tubing

Solutions for Life

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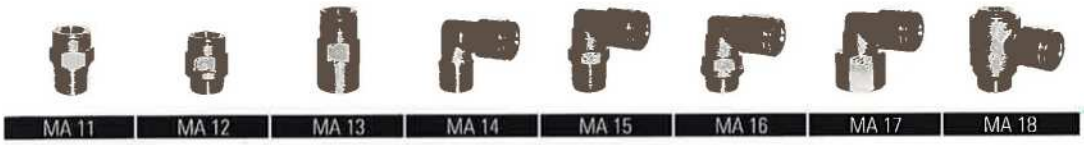
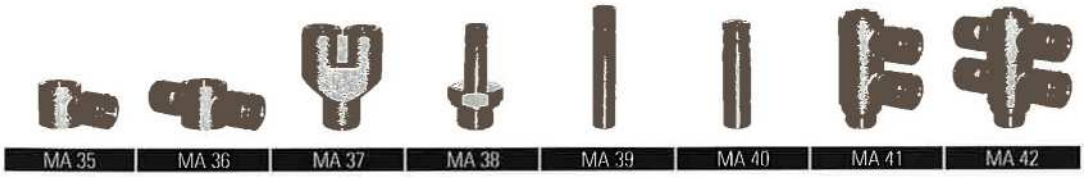
SERIE **MA**





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SERIE MA

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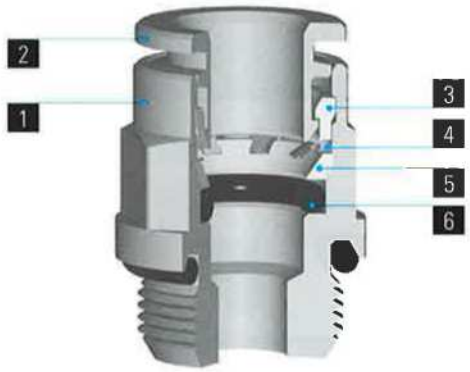
Corpo ed Anello Estrattore Body and Release Ring Corps et poussoir Körper und Lösering	Anello di Tenuta Tightness Ring Bague tenue Dichtheitring	Pinza aggraffaggio Gripping collet Pince Spannzange	Anello portapinza Protection Ring Bague protection Schutzring	O-Ring O-Ring Joint d'étancheité Dichtung
Ottone UNI EN 12164 CW614N - UNI EN 12165 CW617N Nichelato Brass UNI EN 12164 CW614N - UNI EN 12165 CW617N Nickel Plated Laiton UNI EN 12164 CW614N - UNI EN 12165 CW617N Nickelé Messing UNI EN 12164 CW614N - UNI EN 12165 CW617N vernickelt	Resina Acetalica (POM) Acetal Resin (POM) Résine acétal (POM) Azetalharz (POM)	Acciaio INOX AISI 301 Stainless steel AISI 301 Acier Inox AISI 301 Edelstahl AISI 301	Resina Acetalica (POM) Acetal Resin (POM) Résine acétal (POM) Azetalharz (POM)	NBR NBR NBR NBR



Varianti disponibili:
Tubo in pollici e filetto NPT: serie PN
Guarnizioni in FPM: serie AV
Filettature coniche preteflonate:
codice articolo+PTFE

Also available:
Imperial sizes: PN line
FPM O-rings: AV line
Teflon-coated threads:
Part number+PTFE

Aussi disponible:
Version en pouce et filetage NPT: Série PN
Joints étanchéité FPM : Série AV
Filetage conique pré-téflonisé:
Article+PTFE

Sonstige Ausführungen
Zöllige Durchmesser und NPT Gewinde:
PN Baureihe
FPM Dichtung: AV Baureihe
Kegelige teflon-beschichtete Gewinde:
Artikelbezeichnung+PTFE

RACCORDI SERIE MA

I raccordi della serie MA, conosciuti come "Raccordi ad innesto Rapido-Automatico", permettono di effettuare rapidi collegamenti di tubi calibrati in materiale plastico in ogni punto di un impianto pneumatico, manualmente e senza l'ausilio di utensili.
Il collegamento e la tenuta pneumatica sono garantiti dall'accoppiamento interno di una molletta d'aggraffaggio in acciaio inox e di un'O-Ring. Una volta inserito il tubo nel raccordo fino in battuta, la molletta lo aggraffa uniformemente impedendone l'uscita; l'estrazione del tubo avviene tramite la pressione del collare metallico esterno chiamato appunto "anello estrattore".
Tutti i raccordi della serie MA vengono sottoposti a trattamento superficiale di Nichelatura.

SPECIFICHE TECNICHE

Tubi di collegamento consigliati:
Rilsan PA 11, Nylon 6, Poliuretano (98 Shore A).
Tolleranze accettabili sui tubi:
+/– 0.05 mm fino a Ø 10 mm.
+/– 0,1 mm da Ø 11 a Ø 15 mm.
Applicazioni:
Circuiti Pneumatici.
Pressioni consentite:
La pressione consigliata è in funzione del tipo di tubo impiegato e comunque non deve mai superare 15 bar.
Tenuta al vuoto fino a 750 mmHg.
Range di temperature consentite:
– 20 °C ÷ 70 °C.

THE MA LINE

The MA is our "Automatic push-in fitting" line. It enables quick connections with calibrated plastic hoses at any time, at any stage of the pneumatic circuit and by a simple hand movement.
The connection and the fitting tightness are made possible by the presence of the stainless steel grip and of an Oring inside the fitting so that once the tube is inserted to the bottom of the fitting, the stainless collet grips onto it and prevents it from being released.
The tube disconnection is then possible by pushing onto the outer metal ring, called release ring.
All MA fittings are brass nickel-plated.

DATA SHEET

Recommended hoses:
Rilsan PA 11, Nylon 6, Polyurethane (98 Shore A).
Acceptable Tolerances on the tube:
+/– 0.05 mm up to 10 mm.
+/– 0,1 mm from diam 11 up to 15 mm.
Application fields:
Pneumatic circuits.
Allowed pressure range:
Pressure varies depending on the kind of tubing used and in any case it never has to exceed 15 bar.
Vacuum: up to 750 mmHg
Max Temperature Range:
– 20 °C +70 °C.

LA SERIE MA

Les raccords MA représentent notre série de raccords autobloquants. Ils permettent un branchement rapid et sûr avec des tubes en plastiques calibrés le long de tout le circuit pneumatique, à tout instant et par un simple mouvement manuel.
Le branchement et la tenue pneumatique sont garantis par la pince en acier et par le joint torique à l'intérieur du raccord.
En poussant le tube jusqu'au fond du raccord, la pince retient le tube tout en empêchant qu'il s'en fuit.
Pour le débrancher il suffit d'appuyer sur le poussoir en métal du raccord et de tirer sur le tube. Tous les raccords sont niquelés.

REINSEIGNEMENTS TECHNIQUES

Tubes conseillés:
Rilsan PA 11, Nylon 6, Polyurethane (98 Shore A).
Tolerances sur les tubes:
+/– 0.05 mm jusqu'au diamètre 10 mm.
+/– 0.1 mm de 11 mm jusqu'à 15 mm.
Domaines d'application:
Circuits pneumatiques.
Pression conseillée:
La pression doit être en fonction du tube employé et ne doit pas dépasser 15 bar.
Vide: jusq'à 750 mmHg
Températures Conseillées:
– 20 °C +70 °C.

DIE MA SERIE

Unsere MA Verschraubungen, bekannt als Push-In Fittings ermöglichen eine schnelle Verbindung mit kalibrierten Kunststoffschläuchen überall in einer pneumatischen Anlagen und mit einer einfachen Handbewegung.
Die Schlauchhaltung und dichtheit erfolgt durch die innere Edelstahlspannzange und den Oring.
Wenn der Schlauch bis zum Verschraubungsanschlag eingesteckt wird, hält die Spannzange den Schlauch fest und vermeidet, dass er sich lösen kann.
Zum Schlauchlösen, auf den Druckring drücken und den Schlauch rausziehen.
Alle MA Verschraubungen sind aus Messing vernickelt.

TECHNISCHE AUSKÜNFTE

Empfohlene Schläuche:
Rilsan PA 11, Nylon 6, Polyurethane (98 Shore A).
Schlauchtoleranzen:
+/– 0.05 mm bis Durchmesser 10 mm.
+/– 0.1 mm von 11 mm bis 15 mm. Durchmesser.
Empfohlener Druckbereich:
Der Druck muss zu dem eingesetzten Schlaeuch im Verhältnis sein und darf nicht 15 bar überschreiten.
Vakuum: bis 75 mmHg.
Temperaturbereich:
– 20 °C +70 °C.

TIPO FILETTATURA Thread Filet Gewinde	RIFERIMENTO NORMA Norm reference Indication de la norme Normangabe	COPPIE DI SERRAGGIO (Nm) M5	1/8	1/4	3/8	1/2
Gas conica Gas taper Gas conique Gas kegelig	UNI - ISO 7/1	-	10÷12	14÷16	16÷18	18÷20
Gas conica teflonata Gas taper teflon-coated Gas conique avec teflon Gas kegelig mit Teflonbeschichtung	UNI - ISO 7/1	-	5÷6	8÷10	10÷12	16÷18
Gas cilindrica con O-Ring Gas parallel with O-Ring Gas cylindrique avec Joint Gas zylindrisch mit O-Ring	UNI - ISO 228/1	-	5÷6	8÷10	10÷12	12÷14
Gas cilindrica con rondella in plastica Gas parallel with plastic ring Gas cylindrique avec bague plastique Gas zylindrisch mit Kunststoffring	UNI - ISO 228/1	-	5÷6	6÷7	8÷10	10÷12
Metrica Metric Métrique Metrisch	ISO R/262	1÷1,5				

ISTRUZIONI DI MONTAGGIO

1. Tagliare il tubo a 90° (servendosi della pinza tagliatubo RA 034) verificando l'assenza di bave interne ed esterne e facendo attenzione che il tubo non si presenti ovalizzato dopo il taglio.
2. Inserire il tubo nel raccordo spingendolo fino in battuta.

Estrazione del tubo
Esercitare una leggera pressione sull'anello estrattore, estraendo contemporaneamente il tubo dal corpo del raccordo.

ASSEMBLY INSTRUCTIONS

1. Cut the tube square (by means of a hose cutter i.e. our RA 037) making sure that no burrs are left and that the tube is not oval.
2. Insert the tube into the fitting until it bottoms.

Tube release
While pressing on the release ring, pull out the tube from the fitting.

INSTRUCTIONS DE MONTAGE

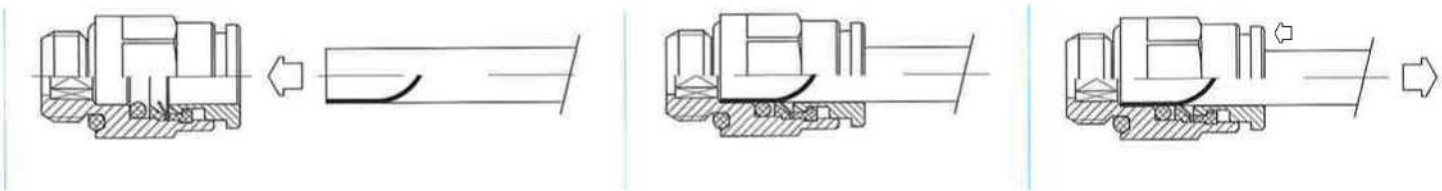
1. Sectionner le tube à 90° par notre coupe tube RA 037 en prenant soin de ne par créer de bavures et de ne pas ovaliser le tube.
2. Pousser le tube jusqu' au fond du raccord.

Débranchement du tube
Appuyer sur le poussoir en métal et tirer simultanément sur le tube.

MONTAGEANWEISUNGEN

1. Schlauch mittels unserer Schlauchschere (RA 037) 90° abschneiden und entgraten.
2. Darauf achten, daß der Schlauch danach nicht oval gequetscht ist und dann ihn bis zum Verschraubungsanschlag einstecken.

Schlauchlösen
Auf den Druckring drücken und gleichzeitig den Schlauch rausziehen.



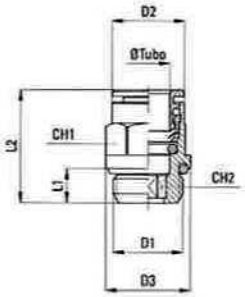
MA 11

Diritto maschio conico | Taper Stud, male | Union simple, conique | Gerade Einschraubverschraubung, kegelig

Tipo	Øe Tubo	D1	D2	L1	L2	CH	g
11 04 18	4	R1/8	9	7,5	15,5	10	5
11 04 14	4	R1/4	9	11	20	14	16
11 06 18	6	R1/8	12	7,5	20,5	12	9
11 06 14	6	R1/4	12	11	20	14	14
11 08 18	8	R1/8	14	7,5	24,5	14	13
11 08 14	8	R1/4	14	11	23	14	14
11 08 38	8	R3/8	14	11,5	22	17	24
11 10 14	10	R1/4	16	11	30	16	21
11 10 38	10	R3/8	16	11,5	23,5	17	21
11 10 12	10	R1/2	16	14	26,5	22	47
11 12 14	12	R1/4	18	11	31,5	18	29
11 12 38	12	R3/8	18	11,5	27	18	24
11 12 12	12	R1/2	18	14	27	22	42
11 14 38	14	R3/8	22	11,5	35	22	41
11 14 12	14	R1/2	22	14	32	22	39

MA 12

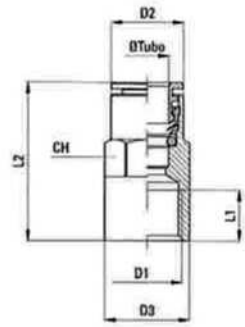
Diritto maschio cilindrico | Parallel Stud, male | Union simple mâle cylindrique | Gerade Einschraubverschraubung, zylindrisch



Tipo	Øe Tubo	D1	D2	D3	L1	L2	CH1	CH2	g
12 03 M3	3	M3x0,5	6,5	5,5	3	14	-	1,5	2
12 03 M5	3	M5x0,8	6,5	8	4	14,5	-	2	2
12 04 M5	4	M5x0,8	9	8	4	18,5	-	2,5	4
12 04 M6	4	M6x1	9	9	4,5	17	-	3	5
12 04 18	4	G1/8	9	13	5	16	9	3	6
12 04 14	4	G1/4	9	16	6,5	18	9	3	12
12 06 M5	6	M5x0,8	12	8	4	21,5	-	2,5	9
12 06 M6	6	M6x1	12	9	4,5	22	-	3	9
12 06 18	6	G1/8	12	13,5	5	19	12	4	9
12 06 14	6	G1/4	12	16	6,5	19	12	4	13
12 08 18	8	G1/8	14	13	5	22,5	13	6	11
12 08 14	8	G1/4	14	16	6,5	21	14	6	14
12 08 38	8	G3/8	14	20	7	20,5	14	6	20
12 10 14	10	G1/4	16	16	6,5	27	15	8	17
12 10 38	10	G3/8	16	20	7	24,5	16	8	22
12 10 12	10	G1/2	16	25	8,5	25	16	8	35
12 12 14	12	G1/4	18	16	6,5	28	18	8	26
12 12 38	12	G3/8	18	20	7	28	18	10	29
12 12 12	12	G1/2	18	25	8,5	26	18	10	37
12 14 38	14	G3/8	22	20	7	31	22	10	37
12 14 12	14	G1/2	22	25	8,5	31,5	22	12	43
12 06 12x1,25	6	M12x1,25	12	14,5	11	24	13	-	13
12 06 12x1,5	6	M12x1,5	12	14,5	11	24	13	-	13

MA 13

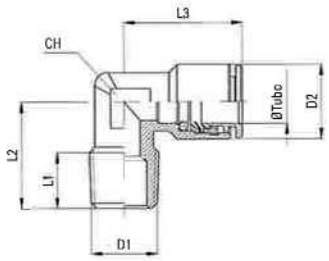
Diritto femmina | Female Stud | Union simple femelle | Gerade Aufschraubverschraubung



Tipo	Øe Tubo	D1	D2	D3	L1	L2	CH	g
13 04 18	4	G1/8	9	13	7,5	23	9	10
13 06 18	6	G1/8	12	14	7,5	25,5	12	15
13 06 14	6	G1/4	12	16	11	29,5	12	19
13 08 18	8	G1/8	14	13	7,5	26	14	18
13 08 14	8	G1/4	14	16	11	29,5	14	20
13 10 14	10	G1/4	16	16	11	31,5	16	24
13 10 38	10	G3/8	16	20	12	33	16	30

MA 14

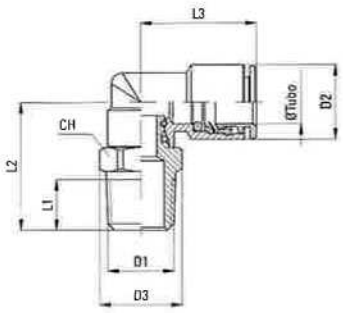
Gomito maschio conico | Taper Elbow Fitting, male | Raccord à coude mâle conique | Winkelverschraubung, kegelig



Tipo	Øe Tubo	D1	D2	L1	L2	L3	CH	g
14 04 18	4	R1/8	9	7,5	15	17	9	8
14 04 14	4	R1/4	9	11	18,5	17	9	14
14 06 18	6	R1/8	12	7,5	15	20	10	13
14 06 14	6	R1/4	12	11	18,5	20	10	17
14 08 18	8	R1/8	14	7,5	19	20,5	12	20
14 08 14	8	R1/4	14	11	21	20,5	12	22,5
14 10 14	10	R1/4	16	11	22	24	14	27
14 10 38	10	R3/8	16	11,5	22,5	24	14	31

MA 15

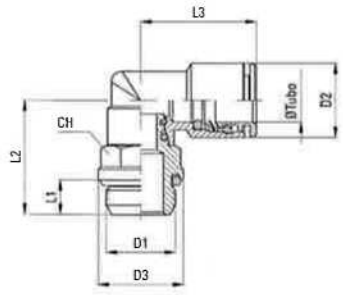
Gomito maschio conico girevole | Taper Swivelling Elbow, male | Raccord à coude tournant, mâle conique | Schwenkbare Winkelverschraubung, kegelig



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	CH	g
15 04 18	4	R1/8	9	14,5	7,5	17,5	17	10	11
15 04 14	4	R1/4	9	15,5	11	24	19	14	21
15 06 18	6	R1/8	12	14,5	7,5	20	21,5	13	20
15 06 14	6	R1/4	12	15,5	11	24	21,5	14	23
15 08 18	8	R1/8	14	14,5	7,5	20	22	13	23
15 08 14	8	R1/4	14	15,5	11	24	22	14	27
15 08 38	8	R3/8	14	20	11,5	27	23	18	40
15 10 14	10	R1/4	16	20	11	26,5	25	18	39
15 10 38	10	R3/8	16	20	11,5	27	25	18	41
15 12 38	12	R3/8	18	22,5	11,5	30,5	28	20	62
15 12 12	12	R1/2	18	24,5	14	33,5	28	22	71
15 14 38	14	R3/8	22	22,5	11,5	30,5	30,5	20	66
15 14 12	14	R1/2	22	24,5	14	33,5	30,5	22	75

MA 16

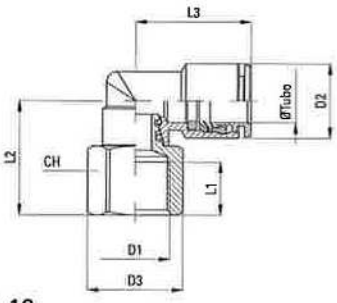
Gomito maschio cilindrico girevole | Parallel Swivelling Elbow, male | Raccord à coude tournant, mâle cylindrique | Schwenkbare Winkelverschraubung, zylindrisch



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	CH	g
16 03 M5	3	M5x0,8	7	10	4	14	14	9	7
16 04 M5	4	M5x0,8	9	10	4	14	17	9	9
16 04 M6	4	M6x1	9	10	4,5	14,5	17	9	9
16 04 18	4	G1/8	9	14,5	5	18	19	13	16
16 04 14	4	G1/4	9	16	6,5	21,5	19	13	19
16 06 M5	6	M5x0,8	12	10	4	14	20	9	12
16 06 M6	6	M6x1	12	10	4,5	14,5	20	9	12
16 06 18	6	G1/8	12	14,5	5	18	21,5	13	18
16 06 14	6	G1/4	12	16	6,5	21,5	21,5	13	22
16 08 18	8	G1/8	14	14,5	5	18	22	13	22
16 08 14	8	G1/4	14	16	6,5	21,5	22	13	26
16 08 38	8	G3/8	14	20	7	25,5	23	16	37
16 10 14	10	G1/4	16	16	6,5	22	25	16	34
16 10 38	10	G3/8	16	20	7	25,5	25	16	39
16 10 12	10	G1/2	16	25	8,5	27,5	25	16	43
16 12 14	12	G1/4	18	16	6,5	25,5	28	20	60
16 12 38	12	G3/8	18	20	7	26	28	20	57
16 12 12	12	G1/2	18	25	8,5	30,5	28	20	66
16 14 38	14	G3/8	22	20	7	26	30,5	20	61
16 14 12	14	G1/2	22	25	8,5	30,5	30,5	20	69
16 06 12x1,25	6	M12x1,25	12	14,5	11	23	21,5	13	22
16 06 12x1,5	6	M12x1,5	12	14,5	11	23	21,5	13	22

MA 17

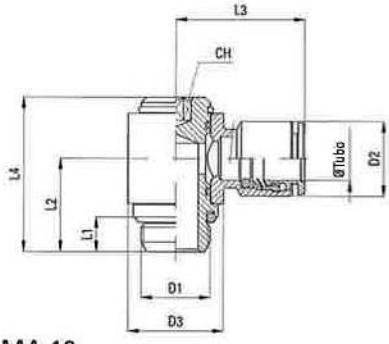
Gomito femmina girevole | Swivelling Elbow, female | Raccord à coude tournant femelle | Drehbare Winkel-Aufschraubverschraubung



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	CH	g
17 04 18	4	G1/8	9	14,5	7,5	17,5	19	13	17
17 06 18	6	G1/8	12	14,5	7,5	17,5	21,5	13	20
17 06 14	6	G1/4	12	18	11	21,5	21,5	16	26
17 08 18	8	G1/8	14	14,5	7,5	17,5	22	13	23
17 08 14	8	G1/4	14	18	11	21,5	22	16	29
17 10 14	10	G1/4	16	18	11	23	25	16	36
17 10 38	10	G3/8	16	22,5	12	25	25	20	44

MA 18

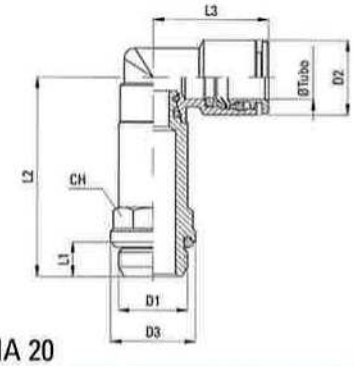
Girevole con anello singolo | Swivelling fitting with banjo ring | Raccord tournant avec banjo | Schwenkverschraubung mit Ringstück



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	L4	CH	g
18 03 M3	3	M3x0,5	6,5	8	3	8,5	14	14	2	4,5
18 03 M5	3	M5x0,8	6,5	8	4	9,5	14	15	2	8,5
18 04 M5	4	M5x0,8	9	10	4	11	18	19	3	10
18 04 18	4	G1/8	9	14	5	15	19,5	25,5	4	22
18 06 M5	6	M5x0,8	12	10	4	11	20,5	19	3	13
18 06 18	6	G1/8	12	14	5	15	22	25,5	4	25
18 06 14	6	G1/4	12	18	6,5	17,5	23,5	29	5	40
18 08 18	8	G1/8	14	14	5	15	22,5	25,5	4	26
18 08 14	8	G1/4	14	18	6,5	17,5	24	29	5	40
18 10 14	10	G1/4	16	18	6,5	17,5	26,5	29	5	43
18 10 38	10	G3/8	16	22	7	19,5	28	32,5	6	63
18 12 38	12	G3/8	18	22	7	19,5	29	32,5	6	68
18 12 12	12	G1/2	18	27	8,5	24	31	39,5	8	115

MA 19

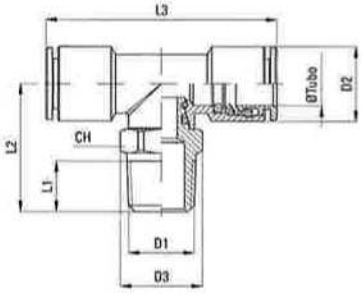
Gomito maschio cilindrico girevole prolungato | Swivelling Extended Elbow, male, parallel | Coude long tournant cylindrique, mâle | Verlängerte Winkelverschraubung, drehbar und zylindrisch



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	CH	g
19 04 18	4	G1/8	9	14,5	5	29	19	13	25,5
19 06 18	6	G1/8	12	14,5	5	32	21,5	13	31
19 06 14	6	G1/4	12	18	6,5	35,5	21,5	16	31
19 08 18	8	G1/8	14	14,5	5	34	22	13	35,5
19 08 14	8	G1/4	14	18	6,5	37,5	22	16	36

MA 20

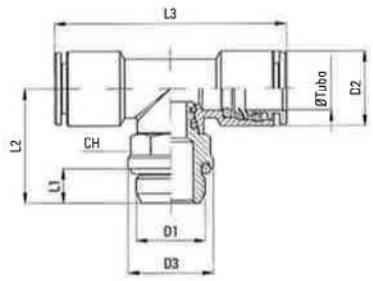
T Centrale maschio conico girevole | Swivelling Tee, taper | Raccord à Te tournant , mâle conique | T-Verschraubung, schwenkbar und kegelig



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	CH	g
20 04 18	4	R1/8	9	14,5	7,5	20	38	13	21
20 04 14	4	R1/4	9	15,5	11	24	38	14	26
20 06 18	6	R1/8	12	14,5	7,5	20	43	13	26,5
20 06 14	6	R1/4	12	15,5	11	24	43	14	30,5
20 08 18	8	R1/8	14	14,5	7,5	20	44	13	31
20 08 14	8	R1/4	14	15,5	11	24	44	14	35
20 08 38	8	R3/8	14	20	11,5	27	46	18	49
20 10 14	10	R1/4	16	20	11	26,5	50	18	50
20 10 38	10	R3/8	16	20	11,5	27	50	18	52
20 12 38	12	R3/8	18	22,5	11,5	30,5	56	20	80
20 12 12	12	R1/2	18	24,5	14	33,5	56	22	84

MA 21

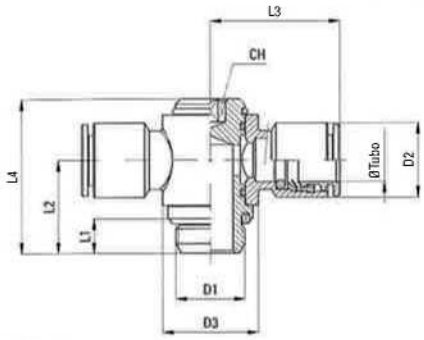
T Centrale maschio cilindrico girevole | Swivelling Tee, parallel | Raccord à Te tournant, mâle cylindrique | T-Verschraubung, schwenkbar und zylindrisch



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	CH	g
21 04 18	4	G1/8	9	14,5	5	18	38	13	20
21 04 14	4	G1/4	9	16	6,5	21,5	38	13	24
21 06 18	6	G1/8	12	14,5	5	18	43	13	26
21 06 14	6	G1/4	12	16	6,5	21,5	43	13	29
21 08 18	8	G1/8	14	14,5	5	18	44	13	30
21 08 14	8	G1/4	14	16	6,5	21,5	44	13	34
21 08 38	8	G3/8	14	20	7	25,5	46	16	46
21 10 14	10	G1/4	16	16	6,5	22	50	16	45
21 10 38	10	G3/8	16	20	7	25,5	50	16	50
21 12 38	12	G3/8	18	20	7	26	56	20	75
21 12 12	12	G1/2	18	25	8,5	30,5	56	20	83

MA 22

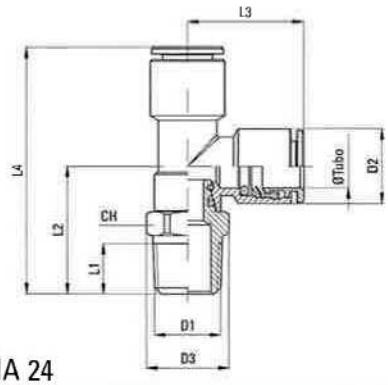
Girevole con anello doppio | Swivelling Fitting with double banjo ring | Raccord tournant avec banjo double | Drehbare Verschraubung mit zweifachem Ringstück



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	L4	CH	g
22 04 M5	4	M5x0,8	9	10	4	11	36	19	3	13,5
22 04 18	4	G1/8	9	14	5	15	39	25,5	4	27,5
22 06 M5	6	M5x0,8	12	10	4	11	41	19	3	20
22 06 18	6	G1/8	12	14	5	15	44	25,5	4	32
22 06 14	6	G1/4	12	18	6,5	17,5	47	29	5	46
22 08 18	8	G1/8	14	14	5	15	45	25,5	4	34
22 08 14	8	G1/4	14	18	6,5	17,5	48	29	5	47
22 10 14	10	G1/4	16	18	6,5	17,5	53	29	5	55
22 10 38	10	G3/8	16	22	7	19,5	56	32,5	6	72,5
22 12 38	12	G3/8	18	22	7	19,5	58	32,5	6	78,5
22 12 12	12	G1/2	18	27	8,5	24	62	39,5	8	125

MA 23

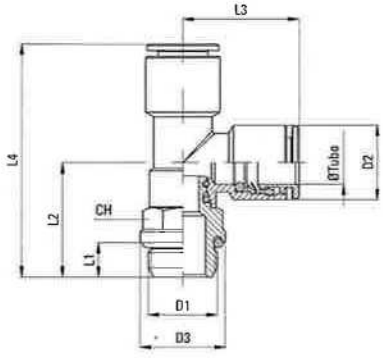
T Laterale maschio conico girevole | Lateral Swivelling Tee, taper | Raccord à Té latéral conique, tournant | T-Schwenkverschraubung, kegelig



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	L4	CH	g
23 04 18	4	R1/8	9	14,5	7,5	19,5	19	39	13	22
23 04 14	4	R1/4	9	15,5	11	24	19	43	14	25,5
23 06 18	6	R1/8	12	14,5	7,5	20	21,5	41,5	13	27,5
23 06 14	6	R1/4	12	15,5	11	24	21,5	45,5	14	31
23 08 18	8	R1/8	14	14,5	7,5	20	22	42	13	32
23 08 14	8	R1/4	14	15,5	11	24	22	46	14	35
23 10 14	10	R1/4	16	20	11	26,5	25	51,5	18	50
23 10 38	10	R3/8	16	20	11,5	27	25	52	18	51
23 12 38	12	R3/8	18	22,5	11,5	30,5	28	58,5	20	75
23 12 12	12	R1/2	18	24,5	14	33,5	28	61,5	22	83,5

MA 24

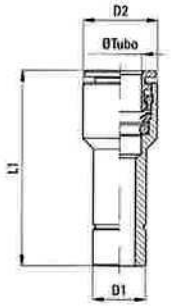
T Laterale maschio cilindrico girevole | Lateral Swivelling Tee, parallel | Raccord à Té latéral cylindrique, tournant | T-Schwenkverschraubung, zylindrisch



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	L4	CH	g
24 04 18	4	G1/8	9	14,5	5	18	19	37	13	20,5
24 04 14	4	G1/4	9	16	6,5	21,5	19	40,5	13	24
24 06 18	6	G1/8	12	14,5	5	18	21,5	39,5	13	26
24 06 14	6	G1/4	12	16	6,5	21,5	21,5	43	13	29,5
24 08 18	8	G1/8	14	14,5	5	18	22	40	13	30
24 08 14	8	G1/4	14	16	6,5	21,5	22	43,5	13	34
24 10 14	10	G1/4	16	16	6,5	22	25	47	16	44
24 10 38	10	G3/8	16	20	7	25,5	25	50,5	16	49
24 12 38	12	G3/8	18	20	7	26	28	54	20	70
24 12 12	12	G1/2	18	25	8,5	30,5	28	58,5	20	78

MA 25

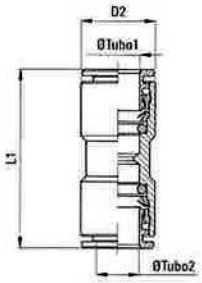
Riduzione | **Reducer** | **Réduction** | **Reduzierstück**



Tipo	Øe Tubo	D1	D2	L1	g
25 03 04	3	4	6,5	27	2,5
25 04 06	4	6	9	31	7
25 04 08	4	8	9	31	10
25 04 10	4	10	9	31	15,5
25 04 12	4	12	9	32	25
25 06 04	6	4	12	35	10
25 06 08	6	8	12	33	11,5
25 06 10	6	10	12	34	16
25 06 12	6	12	12	35	22
25 06 14	6	14	12	37	25
25 08 06	8	6	14	37	13,5
25 08 10	8	10	14	35	15
25 08 12	8	12	14	36	23
25 08 14	8	14	14	38	31
25 10 12	10	12	16	39	29
25 10 14	10	14	16	41	20
25 12 14	12	14	18	41	24

MA 26

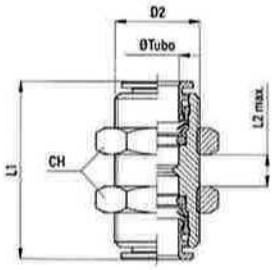
Giunzione Intermedia | **Union** | **Union simple égale** | **Gerade Verbindung**



Tipo	Øe Tubo1	Øe Tubo2	D2	L1	g
26 03 00	3	3	6,5	22	3
26 04 00	4	4	9	27	6,5
26 06 00	6	6	12	32,5	14,5
26 06 04	6	4	12	30	15
26 08 00	8	8	14	33	18
26 08 06	8	6	14	33	21
26 10 00	10	10	16	37,5	22,5
26 10 08	10	8	16	35,5	25
26 12 00	12	12	18	39,5	36
26 14 00	14	14	22	44,5	48

MA 27

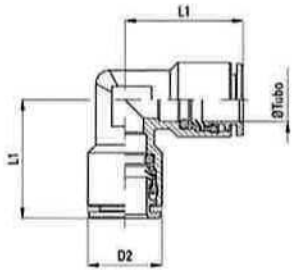
Giunzione Intermedia passaparete | **Straight Bulkhead fitting** | **Union traversée de cloison** | **Gerade Schottverschraubung**



Tipo	Øe Tubo	D2	L1	L2 max	CH	g
27 03 03	3	M10x1	22	8	14	14,5
27 04 04	4	M12x1	27	11	16	24
27 06 06	6	M14x1	32,5	16	18	34
27 08 08	8	M16x1	33	17	20	40
27 10 10	10	M18x1	37,5	19	22	51
27 12 12	12	M20x1	39,5	20	24	60

MA 28

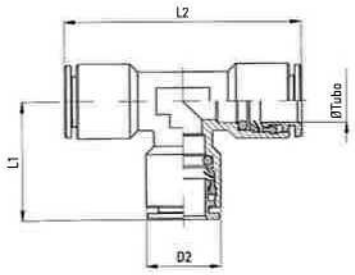
Gomito Intermedio | **Union Elbow** | **Raccord à Coude** | **Winkelverschraubung**



Tipo	Øe Tubo	D2	L1	g
28 03 03	3	7	13	4,5
28 04 04	4	9	16,5	9
28 06 06	6	12	19,5	16,5
28 08 08	8	14	20,5	23
28 10 10	10	16	24	29
28 12 12	12	18	26	48
28 14 14	14	22	30	60

MA 29

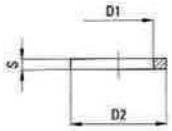
T Intermedio | Union Tee | Raccord à Té | T-Verschraubung



Tipo	Øe Tubo	D2	L1	L2	g
29 03 03	3	7	13	26	6
29 04 04	4	9	16,5	33	12,5
29 06 06	6	12	19,5	39	22
29 08 08	8	14	20,5	41	28
29 10 10	10	16	24	48	38
29 12 12	12	18	26	52	62
29 14 14	14	22	30	60	78

MA 30

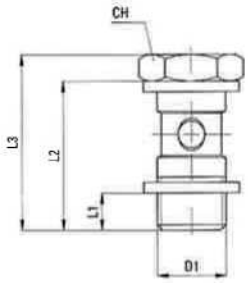
Rondella di tenuta in Alluminio | Aluminium Ring | Bague étancheité en aluminium | Aluminiumdichtring



Tipo	D1	D2	S	g
30 00 M5	5,2	9	1	0,1
30 00 18	10,3	14	1,5	0,2
30 00 14	13,5	18	1,5	0,4
30 00 38	17	22	1,5	0,5
30 00 12	21,5	27	1,5	0,8

MA 31

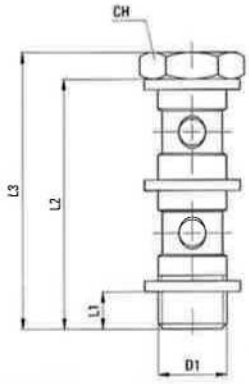
Asta singola | Simple Screw | Vis simple | Hohlschraube



Tipo	D1	L1	L2	L3	CH	g
31 00 M5	M5x0,8	4	16	19	8	3
31 00 18	G1/8	5	23	27	14	14
31 00 14	G1/4	6,5	26,5	31,5	17	27
31 00 38	G3/8	7	30	36	20	44
31 00 12	G1/2	8,5	35,5	41,5	26	81,5

MA 32

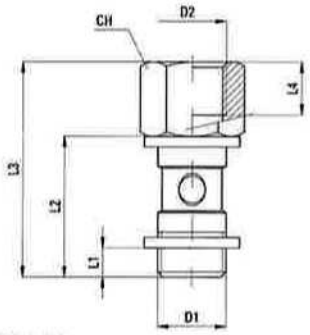
Asta doppia | Double Screw | Vis double | Zweifache Hohlschraube



Tipo	D1	L1	L2	L3	CH	g
32 00 18	G1/8	5	39,5	42,5	14	20
32 00 14	G1/4	6,5	45	50	17	39
32 00 38	G3/8	7	51,5	57,5	20	63
32 00 12	G1/2	8,5	61	67	26	120

MA 33

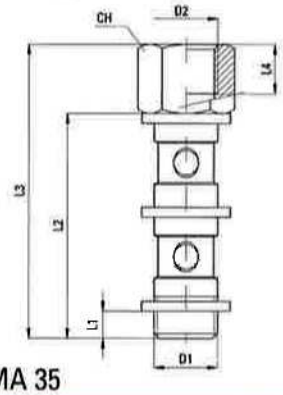
Asta singola maschio-femmina | Screw, male female | Vis mâle, femelle | Ein-Aufschraubhohlschraube



Tipo	D1	D2	L1	L2	L3	L4	CH	g
33 00 18	G1/8	G1/8	5	23	35	8	14	20
33 00 14	G1/4	G1/4	6,5	26,5	40,5	10	17	33
33 00 38	G3/8	G3/8	7	30	45	11	20	48

MA 34

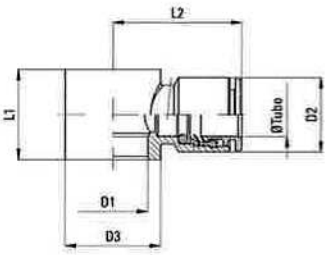
Asta doppia maschio-femmina | Double Screw, male female | Vis double, mâle,femelle | Ein-Aufschraubhohlschraube, zweifach



Tipo	D1	D2	L1	L2	L3	L4	CH	g
34 00 18	G1/8	G1/8	5	39,5	51,5	8	14	27
34 00 14	G1/4	G1/4	6,5	45	59	10	17	44
34 00 38	G3/8	G3/8	7	51,5	66,5	11	20	67

MA 35

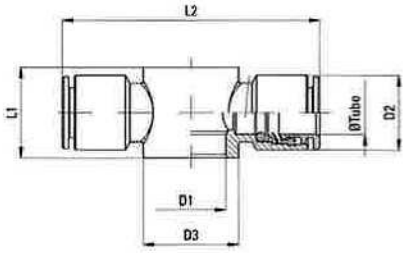
Anello singolo | Banjo Ring | Banjo simple | Ringstück



Tipo	Ø Tubo	D1	D2	D3	L1	L2	g
35 04 M5	4	M5	9	10	10	18	8
35 04 M5/R	4	7	9	10	10	18	7
35 04 18	4	1/8	9	14	15	19,5	13,5
35 06 18	6	1/8	12	14	15	22	16
35 06 14	6	1/4	12	18	17	23,5	22
35 08 18	8	1/8	14	14	15	22,5	17
35 08 14	8	1/4	14	18	17	24	23
35 08 38	8	3/8	14	22	20	26	38
35 10 14	10	1/4	16	18	17	26,5	27
35 10 38	10	3/8	16	22	20	28	39
35 12 38	12	3/8	18	22	20	29	39
35 12 12	12	1/2	18	27	24	31	57

MA 36

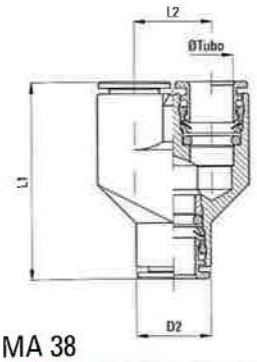
Anello doppio | Double Banjo Ring | Banjo double | Zweifaches Ringstück



Tipo	Ø Tubo	D1	D2	D3	L1	L2	g
36 04 M5	4	M5	9	10	10	36	11
36 04 18	4	1/8	9	14	15	39	18,5
36 06 18	6	1/8	12	14	15	44	23
36 06 14	6	1/4	12	18	17	47	29
36 08 18	8	1/8	14	14	15	45	25
36 08 14	8	1/4	14	18	17	48	30
36 08 38	8	3/8	14	22	20	52	43
36 10 14	10	1/4	16	18	17	53	37,5
36 10 38	10	3/8	16	22	20	56	45
36 12 38	12	3/8	18	22	20	58	52
36 12 12	12	1/2	18	27	24	62	67

MA 37

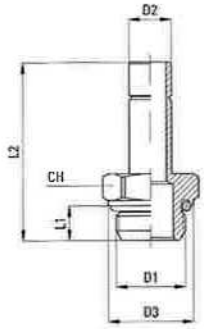
Y | Union Y | Raccord à Y | Y-Verschraubung



Tipo	Øe Tubo	D2	L1	L2	g
37 04 04	4	9	28,5	9,5	14
37 06 06	6	12	35	12,5	33
37 08 08	8	14	36,5	14,5	43

MA 38

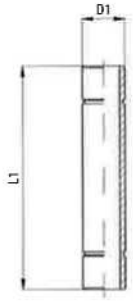
Attacco con filetto cilindrico | Stem adaptor | Branchement avec filetage cylindrique | Anschluß mit zylindrischem Gewinde



Tipo	Øe Tubo	D1	D2	D3	L1	L2	g
38 04 M5	M5x0,8	4	10	4	24	9	3
38 04 18	G1/8	4	14,5	5	26	13	7
38 04 14	G1/4	4	16	6,5	28,5	16	14
38 06 M5	M5x0,8	6	10	4	26	9	6
38 06 18	G1/8	6	14,5	5	28	13	8,5
38 06 14	G1/4	6	16	6,5	30,5	16	14
38 08 18	G1/8	8	14,5	5	29	13	9
38 08 14	G1/4	8	16	6,5	31,5	16	15
38 10 14	G1/4	10	16	6,5	32,5	16	15
38 10 38	G3/8	10	20	7	33	20	22
38 12 38	G3/8	12	20	7	35	20	23
38 12 12	G1/2	12	25	8,5	37	26	33

MA 39

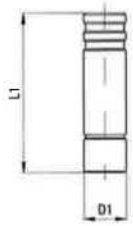
Prolunga | Extention Piece | Douille de liaison | Verbindung



Tipo	D1	L1	g
39 00 04	4	30	2,8
39 00 06	6	35	5,5
39 00 08	8	35	7,5
39 00 10	10	40	10
39 00 12	12	42	14
39 00 14	14	46	19

MA 40

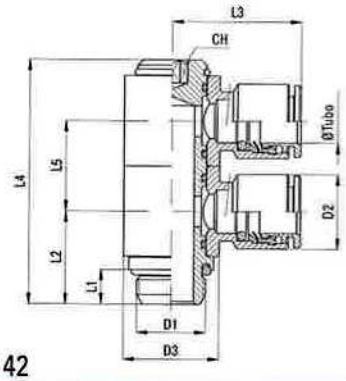
Tappo | Plug | Bouchon | Stopfen



Tipo	D1	L1	g
40 00 03	3	20	1
40 00 04	4	25	2,5
40 00 06	6	30	5,5
40 00 08	8	30	12,5
40 00 10	10	35	22,5
40 00 12	12	38	37,5
40 00 14	14	40	32,5

MA 41

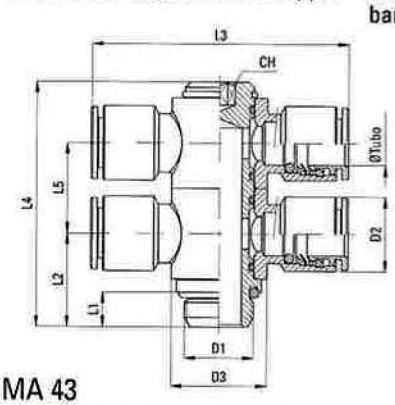
Girevole con doppio anello singolo | Swivelling Fitting with two banjo rings | Raccord tournant avec deux banjos | Drehbare gerade Verschraubung mit zwei Ringstücken



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	L4	L5	CH	g
41 04 M5	4	M5x0,8	9	10	4	11	18	29	10	3	19
41 04 18	4	G1/8	9	14	5	15	19,5	40,5	15	4	40
41 06 18	6	G1/8	12	14	5	15	22	40,5	15	4	45
41 06 14	6	G1/4	12	18	6,5	17,5	23,5	46	17	5	69
41 08 18	8	G1/8	14	14	5	15	22,5	40,5	15	4	47
41 08 14	8	G1/4	14	18	6,5	17,5	24	46	17	5	70

MA 42

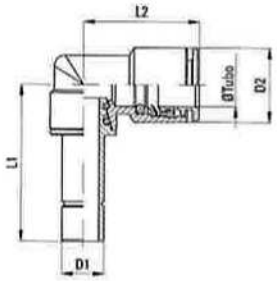
Girevole con duplice anello doppio | Swivelling Fitting with two double banjo rings | Raccord tournant avec deux banjos doubles | Schwenkverschraubung mit zwei Zweifachringstücken



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	L4	L5	CH	g
42 04 M5	4	M5x0,8	9	10	4	11	36	29	10	3	25
42 04 18	4	G1/8	9	14	5	15	39	40,5	15	4	50
42 06 18	6	G1/8	12	14	5	15	44	40,5	15	4	59
42 06 14	6	G1/4	12	18	6,5	17,5	47	46	17	5	83
42 08 18	8	G1/8	14	14	5	15	45	40,5	15	4	61
42 08 14	8	G1/4	14	18	6,5	17,5	48	46	17	5	85

MA 43

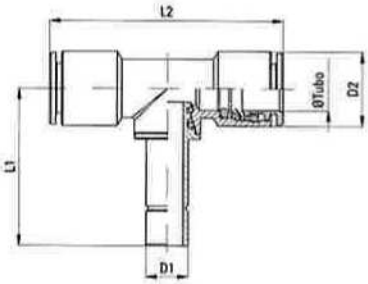
Gomito con codulo | Plug-in Elbow | L à broche encliquetable | Winkelverschraubung mit Steckzapfen



Tipo	Øe Tubo	L1	L2	D1	D2	g
43 04 04	4	25,5	19	4	9	14
43 04 06	4	25,5	19	6	9	15
43 06 04	6	25,5	21,5	4	12	16
43 06 06	6	29,5	21,5	6	12	17
43 06 08	6	29,5	21,5	8	12	17,5
43 08 06	8	29,5	22	6	14	21
43 08 08	8	29,5	22	8	14	21
43 10 10	10	33,5	25	10	16	30,5

MA 44

T centrale con codulo | Plug-in Tee | Té centrale à broche encliquetable | T-Verschraubung mit Steckzapfen



Tipo	Øe Tubo	L1	L2	D1	D2	g
44 04 04	4	25,5	38	4	9	18,5
44 04 06	4	29,5	38	6	9	19,5
44 06 06	6	29,5	43	6	12	24,5
44 06 08	6	29,5	43	8	12	24,5
44 08 08	8	29,5	44	8	14	29
44 08 10	8	33,5	44	10	14	38,5
44 10 10	10	33,5	50	10	16	41

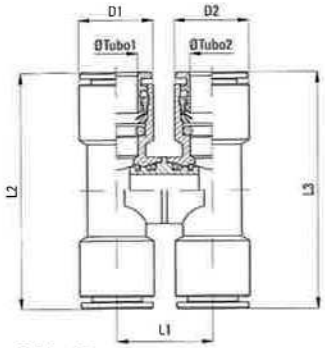
MA 45

T laterale con codulo | Plug-in Run Tee | Té latéral à broche encliquetable | T-Verschraubung mit Steckzapfen

Tipo	Øe Tubo	L1	L2	L3	D1	D2	g
45 04 04	4	25,5	19	44,5	4	9	19
45 04 06	4	29,5	19	48,5	6	9	20
45 06 06	6	29,5	21,5	51	6	12	25
45 06 08	6	29,5	21,5	51	8	12	25,5
45 08 08	8	29,5	22	51,5	8	14	30
45 10 10	10	33,5	25	58,5	10	16	41,5

MA 46

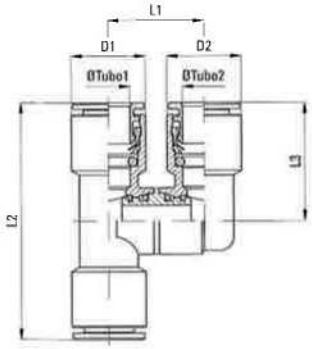
Croce intermedia girevole | Swivelling Cross Fitting | Croix tournante | Kreuzverschraubung, drehbar



Tipo	Øe Tubo1	Øe Tubo2	L1	L2	L3	D1	D2	g
46 04 04	4	4	18	38	38	9	9	31
46 04 06	4	6	18	38	43	9	12	36
46 06 06	6	6	18	43	43	12	12	41
46 06 08	6	8	18	43	44	12	14	46,5
46 08 08	8	8	18	44	44	14	14	51

MA 47

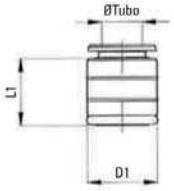
Y intermedio girevole | Swivelling Y Fitting | Raccord Y tournant | Y-Verschraubung, drehbar



Tipo	Øe Tubo1	Øe Tubo2	L1	L2	L3	D1	D2	g
47 04 04	4	4	18	38	19	9	9	27
47 04 06	4	6	18	38	21,5	9	12	29,5
47 06 06	6	6	18	43	21,5	12	12	34,5
47 06 08	6	8	18	43	22	12	14	37,5
47 08 08	8	8	18	44	22	14	14	42

MA 48

Cartuccia a pressare | Press-in Cartridge | Cartouche à presser | Einsteckpatrone



Tipo	Øe Tubo	D1	L1	g
48 04 00	4	9	11,5	3,5
48 06 00	6	12	13	7
48 08 00	8	14	13,5	8,5
48 10 00	10	16	15,3	11

Qualora diverso dalla plastica, specificare il materiale dove si intende inserire la cartuccia.

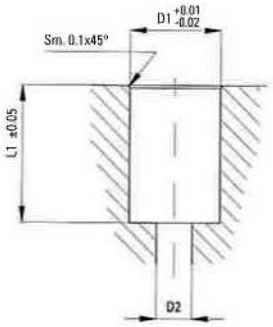
Pls always specify if body's material housing catridges differs from plastics.

Veuillez s'il Vous plaît toujours indiquer si le matériel du siège des cartouches n'est pas en plastique.

Bitte immer Werkstoff angeben, wenn der Körper wo die Patronen einzusetzten sind, nicht aus Kunststoff ist.

Schema di foratura

Schema di foratura | Cartridge seat drilling plan | Plan de forage des cartouches | Patronensitzbohrungskizze



Tipo	D_1	D_2	L_1
4	9	3	11,5
6	12	5	13
8	14	7	13,5
10	16	9	15,3

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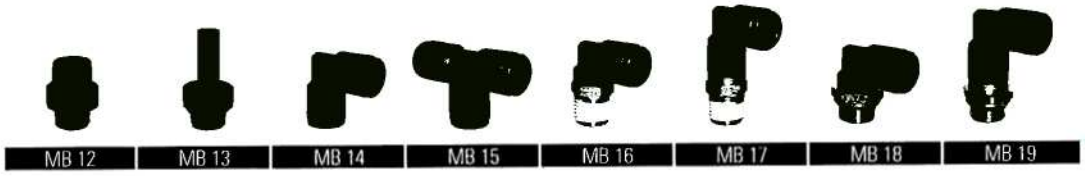
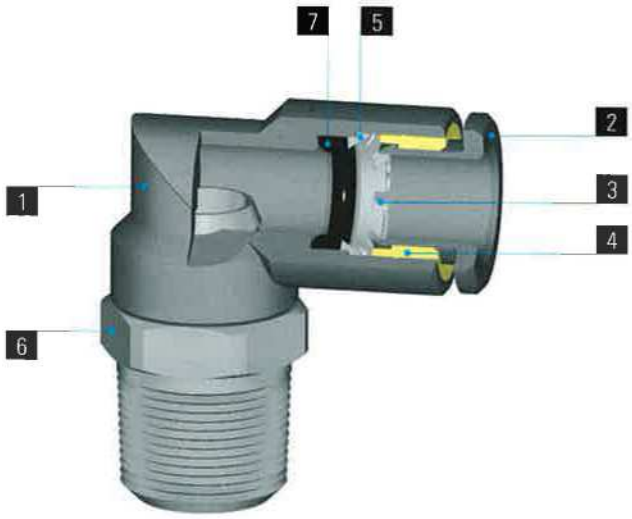
SERIE **MB**



SERIE MB

1 - 2	3	4	5	6	7
Corpo ed Anello Estrattore Body and Release Ring Corp et poussoir Körper und Lösering	Pinza aggraffaggio Gripping collet Pince Spannzange	Anello di Tenuta Tightness Ring Bague tenue Dichtheitring	Anello portapinza Protection Ring Bague protection Schutzring	Viti Filettate Threaded Screws Filets Gewinde	O-Ring O-Ring Joint d'étancheité Dichtung
Resina Acetalica (POM) Acetal Resin (POM) Résine acétal (POM) Azetalharz (POM)	Acciaio Inox AISI 301 Stainless steel AISI 301 Acier Inox AISI 301 Edelstahl AISI 301	Ottone UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Laiton UNI EN 12164 CW614N Messing UNI EN 12164 CW614N	Resina Acetalica (POM) Acetal Resin (POM) Résine acétal (POM) Azetalharz (POM)	Ottone UNI EN 12164 CW614N Nichelato Brass UNI EN 12164 CW614N Nickel Plated Laiton UNI EN 12164 CW614N Nickelé Messing UNI EN 12164 CW614N vernickelt	NBR NBR NBR NBR



RACCORDI SERIE MB

I raccordi della serie MB sono realizzati in un tecnopolimero appartenente alla famiglia delle resine acetaliche conosciute per la loro stabilità dimensionale, rigidezza, resistenza alla fatica e alla corrosione, caratteristiche queste volte a coprire il gap esistente tra metallo e plastiche tradizionali.
Il principio di funzionamento di questi raccordi è il medesimo dei "Raccordi ad innesto Rapido-Automatico", e come tali permettono di effettuare rapidi collegamenti di tubi calibrati in materiale plastico in ogni punto di un impianto pneumatico, manualmente e senza l'ausilio di utensili. Il collegamento e la tenuta pneumatica sono garantiti dall'accoppiamento interno di una molletta d'aggraffaggio in acciaio inox e di un'O-Ring. Una volta inserito il tubo nel raccordo fino in battuta, la molletta lo aggraffa uniformemente impedendone l'uscita. L'estrazione del tubo avviene tramite la pressione del collare in tecno- polimero chiamato appunto "anello estrattore".

THE MB LINE

Our automatic MB fittings are made of a polymer belonging to the acetal resins. The technical features of this polymer make this fitting line stiff, corrosion and fatigue resistent, and allow for dimensional stability, all characteristics necessary to bridge the gap between metal fittings and an ordinary plastic fitting line.
The functioning principle of the MB is the same as our Push-in's therefore enabling quick, manual connection and disconnection with calibrated hoses at any stage of the pneumatic circuit.
The inner Oring and the stainless steel grip allow for the tube to be held captive and for the pneumatic tightness.
When the tube is pushed to the bottom of the fitting, the stainless steel collet grips onto it and the tube is held captive. It is then enough to press on the release ring to set the tube free from the fitting.

LA SERIE MB

Les raccords de la série MB sont produits en polymère, un matériau faisant partie de la famille des résines acétaliques.
Grace aux caractéristiques techniques de ce polymère, les produits contruits en résine acétal ont une rigidité, une stabilité de dimensions, une resistance à la fatigue et à la corrosion qui permettent à cette série de combler les différences techniques entre le raccord en métal et le raccord en plastique. Le fonctionnement de ce raccord est le même que celui de la série autobloquante soit ils permettent de brancher et débrancher des tubes calibrés en tous points du circuit et sans outils. Le branchement et la tenue pneumatique sont garantis par la pince en acier et le joint d'étanchéité à l'interieur du raccord. Après avoir inséré le tube jusqu'au fond du raccord, la pince et le joint en garatissent la tenue. Pour débrancher le tube, pousser sur le poussoir en polymère et tirer sur le tube.

DIE MB SERIE

Unsere MB Verschraubungen besteht aus einem Polymer, das zu der Familie von Azetalharzen gehört.
Dank ihren technischen Eigenschaften und zwar Baugrössestabilität, Starrheit, Ermüdungs- und Korrosionwiderstand können heutzutage Azetalverschraubungen die technischen Unterschiede zwischen Metallverschraubungen und den herkömmlichen Kunststoffverschraubungen überbrücken.
Der Funktionbegriff dieser Serie entpricht dem unserer Steckverschraubung aus Messing und zwar der einfachen schnellen Kupplung und Entkupplung von kalibrierten Schläuchen in jeder Stelle der pneumatischen Anlage. Die Schlauchhaltung und Dichtheit wird durch den inneren Oring und die Edelstahlspannzange ermöglicht und der Schlauch wird dann dadurch befreit, wenn man Druck auf den Aussenpolymerlösering leistet.

SPECIFICHE TECNICHE

Tubi di collegamento consigliati:
Rilsan PA 11, Nylon 6, Poliuretano (98 Shore A)
Tolleranze accettabili sui tubi:
+/– 0.05 mm fino a Ø 10 mm.
+/– 0.1 mm da Ø 11 a Ø 15 mm.
Applicazioni:
Circuiti Pneumatici.
Pressioni consentite:
La pressione consigliata è in funzione del tipo di tubo impiegato e comunque non deve mai superare 12 bar.
Tenuta al vuoto fino a 750 mmHg.
Range di temperature consentite:
– 20 °C ÷ 70 °C.

DATA SHEET

Recommended hoses:
Rilsan PA 11, Nylon 6, Polyuret (98 Shore A)
Acceptable Tolerances on the tube:
+/– 0.05 mm up to 10 mm.
+/– 0.1 mm from diam 11 up to 15 mm.
Application fields:
Pneumatic circuits.
Allowed pressure range:
Pressure varies depending on the kind of tubing used and in any case it never has to exceed 12 bar. Vacuum: up to 750 mmHg
Max Temperature Range:
– 20 °C +70 °C.

REINSEIGNEMENTS TECHNIQUES

Tubes conseillés:
Rilsan PA 11, Nylon 6, Polyuret (98 Shore A)
Tolerances sur les tubes:
+/– 0.05 mm jusqu'au diamètre 10 mm.
+/– 0.1 mm de 11 mm jusqu'à 15 mm.
Domaines d'application:
Circuits pneumatiques.
Pression conseillée:
La pression doit être en fonction du tube employé et ne doit pas dépasser 12 bar.
Vide: jusq'à 750 mmHg
Températures Conseillées:
– 20 °C +70 °C.

TECHNISCHE AUSKÜNFTE

Empfohlene Schläuche:
Rilsan PA 11, Nylon 6, Polyurethane (98 Shore A).
Schlauchtoleranzen:
+/– 0.05 mm bis Durchmesser 10 mm.
+/– 0.1 mm von 11 mm bis 15 mm Durchmesser.
Empfohlener Druckbereich:
Der Druck muss zu dem eingesetzten Schlauch im Verhältnis sein und darf nicht 15 bar überschreiten.
Vakuum: bis 75 mmHg.
Temperaturbereich:
– 20 °C +70 °C.

TIPO FILETTATURA Thread Filet Gewinde	RIFERIMENTO NORMA Norm reference Indication de la norme Normangabe	COPPIE DI SERRAGGIO (Nm)				
		M5	1/8	1/4	3/8	1/2
Gas conica Gas taper Gas conique Gas kegelig	UNI - ISO 7/1	-	10÷12	14÷16	16÷18	18÷20
Gas conica teflonata Gas taper teflon-coated Gas conique avec teflon Gas kegelig mit Teflonbeschichtung	UNI - ISO 7/1	-	5÷6	8÷10	10÷12	16÷18
Gas cilindrica con O-Ring Gas parallel with O-Ring Gas cylindrique avec Joint Gas zylindrisch mit O-Ring	UNI - ISO 228/1	-	5÷6	8÷10	10÷12	12÷14
Gas cilindrica in resina acetalica con O-Ring Gas parallel acetal resin threads with O-Ring Gas cylindrique en résine acétal. avec Joint Gas zylindrisch Gewinde ans kunststoff mit O-Ring	UNI - ISO 228/1	-	1,5÷2	3÷4	4÷5	
Metrica Metric Métrique Metrisch	ISO R/262	1÷1,5				

ISTRUZIONI DI MONTAGGIO

1. Tagliare il tubo a 90° (servendosi della pinza tagliatubo RA 034) verificando l'assenza di bave interne ed esterne e facendo attenzione che il tubo non si presenti ovalizzato dopo il taglio.
2. Inserire il tubo nel raccordo spingendolo fino in battuta.

Estrazione del tubo

Esercitare una leggera pressione sull'anello estrattore, estraendo contemporaneamente il tubo dal corpo del raccordo.

ASSEMBLY INSTRUCTIONS

1. Cut the tube square (by means of a hose cutter i.e. our RA 037) making sure that no burrs are left and that the tube is not oval.
2. Insert the tube into the fitting until it bottoms.

Tube release

While pressing on the release ring, pull out the tube from the fitting.

INSTRUCTIONS DE MONTAGE

1. Sectionner le tube à 90° par notre coupe tube RA 037 en prenant soin de ne par créer de bavures et de ne pas ovaliser le tube.
2. Pousser le tube jusqu' au fond du raccord.

Débranchement du tube

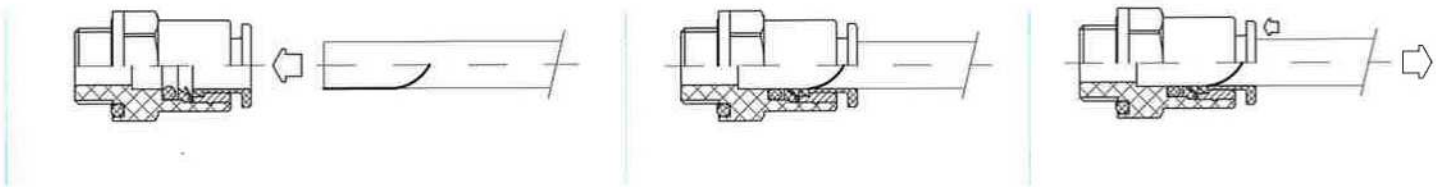
Appuyer sur le poussoir en métal et tirer simultanément sur le tube.

MONTAGEANWEISUNGEN

1. Schlauch mittels unserer Schlauchschere (RA 037) 90° abschneiden und entgraten.
2. Darauf achten, daß der Schlauch danach nicht oval gequetscht ist und dann ihn bis zum Verschraubungsanschlag einstecken.

Schlauchlösen

Auf den Druckring drücken und gleichzeitig den Schlauch rausziehen.



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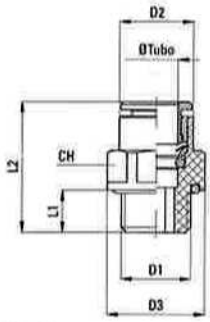
MB 12

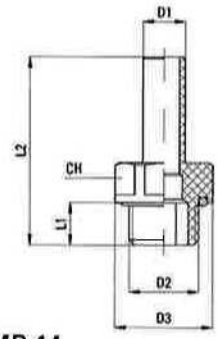
Diritto maschio cilindrico | Male Stud, parallel | Union simple, mâle cylindrique | Gerade Verschraubung, zylindrish



Tipo	Øe Tubo	D1	D2	D3	L1	L2	CH	g
12 04 18	4	G1/8	9,7	15,5	6	20	14	3
12 06 18	6	G1/8	12	15,5	6	23	14	4
12 06 14	6	G1/4	12	18,5	8	25	17	5
12 08 18	8	G1/8	14	15,5	6	24,5	14	4
12 08 14	8	G1/4	14	18,5	8	24	17	5
12 08 38	8	G3/8	14	23,5	9	26	21	8
12 10 14	10	G1/4	16,5	18,5	8	27,5	17	6
12 10 38	10	G3/8	16,5	23,5	9	27,5	21	8

MB 13

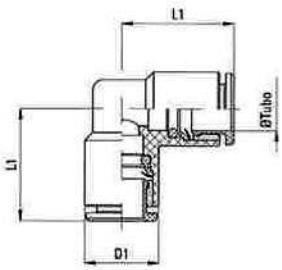
Codulo filettato | Stem adaptor | Branchement avec filétage | Anschluß mit zylindrischem Gewinde



Tipo	D1	D2	D3	L1	L2	CH	g
13 04 18	4	G1/8	15,5	6	27	14	2
13 06 18	6	G1/8	15,5	6	30	14	2
13 06 14	6	G1/4	18,5	8	33,5	17	3
13 08 18	8	G1/8	15,5	6	32	14	2
13 08 14	8	G1/4	18,5	8	35,5	17	3
13 08 38	8	G3/8	23,5	9	37	21	6
13 10 14	10	G1/4	18,5	8	37,5	17	4
13 10 38	10	G3/8	23,5	9	39	21	5

MB 14

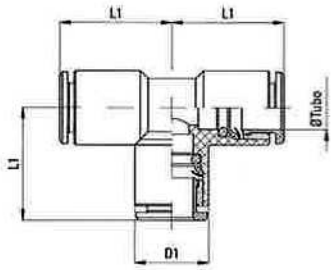
Gomito Intermedio | Union Elbow | Raccord à Coude | Winkelverschraubung



Tipo	Øe Tubo	D1	L1	g
14 04 00	4	9,7	15	3
14 06 00	6	12	19	5
14 08 00	8	14	20,5	7
14 10 00	10	16	23,5	9
14 12 00	12	19	26	14

MB 15

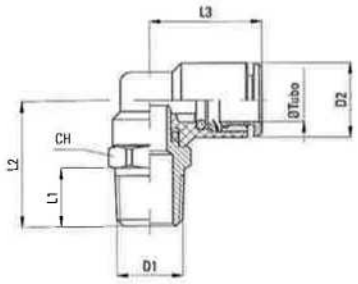
T Intermedio | Union Tee | Raccord à Tè | T-Verschraubung



Tipo	Øe Tubo	D1	L1	g
15 04 00	4	9,7	15	5
15 06 00	6	12	19	8
15 08 00	8	14	20,5	10
15 10 00	10	16	23,5	13
15 12 00	12	19	26	19

MB 16

Gomito maschio conico girevole — Taper Swivelling Elbow, male — Raccord à coude tournant, mâle conique — Schwenkbare Winkelverschraubung, kegelig

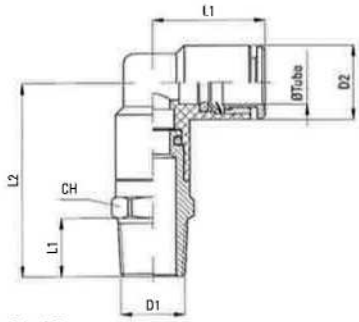


Tipo	Øe Tubo	D1	D2	L1	L2	L3	CH	g
16 04 18	4	R1/8	9,7	7,5	17	15	10	7
16 04 14	4	R1/4	9,7	11	20,5	15	14	13
16 06 18	6	R1/8	12	7,5	18,5	19	12	10
16 06 14	6	R1/4	12	11	22,5	19	14	14
16 08 18	8	R1/8	14	7,5	20	20,5	14	12
16 08 14	8	R1/4	14	11	23,5	20,5	14	15
16 08 38	8	R3/8	14	11,5	24,5	20,5	17	21
16 10 14	10	R1/4	16,5	11	25,5	23,5	16	19
16 10 38	10	R3/8	16,5	11,5	26,5	23,5	17	23

Vite teflonata - Teflon-coated thread - Filet prétefloné - Gewinde mit Teflon

MB 17

Gomito maschio conico girevole prolungato — Extended Swivel Elbow, taper — Raccord à coude long, mâle tournant conique — Verlängerte Winkelverschraubung, kegelig und schwenkbar

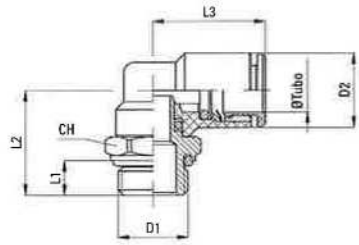


Tipo	Øe Tubo	D1	D2	L1	L2	L3	CH	g
17 04 18	4	R1/8	9,7	7,5	25,5	15	10	8
17 04 14	4	R1/4	9,7	11	29	15	14	13
17 06 18	6	R1/8	12	7,5	29,5	19	12	13
17 06 14	6	R1/4	12	11	33	19	14	17
17 08 18	8	R1/8	14	7,5	33	20,5	14	20
17 08 14	8	R1/4	14	11	36,5	20,5	14	21
17 08 38	8	R3/8	14	11,5	38	20,5	17	25
17 10 14	10	R1/4	16,5	11	41,5	23,5	16	32
17 10 38	10	R3/8	16,5	11,5	42,5	23,5	17	31

Vite teflonata - Teflon-coated thread - Filet prétefloné - Gewinde mit Teflon

MB 18

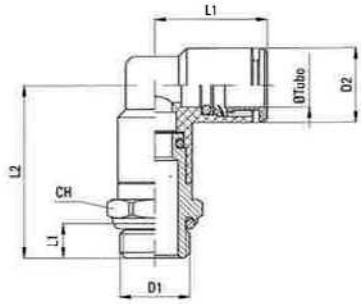
Gomito maschio cilindrico girevole — Parallel Swivelling Elbow, male — Raccord à coude tournant, mâle cylindrique — Schwenkbare Winkelverschraubung, zylindrisch



Tipo	Øe Tubo	D1	D2	L1	L2	L3	CH	g
18 04 M5	4	M5x0,8	9,7	4	15	15	9	5
18 04 18	4	G1/8	9,7	5	15	15	13	8
18 04 14	4	G1/4	9,7	6,5	17	15	16	12
18 06 M5	6	M5x0,8	12	4	15	19	12	8
18 06 18	6	G1/8	12	5	16,5	19	13	9
18 06 14	6	G1/4	12	6,5	18,5	19	16	13
18 08 18	8	G1/8	14	5	17,5	20,5	14	11
18 08 14	8	G1/4	14	6,5	19,5	20,5	16	14
18 08 38	8	G3/8	14	7	21,5	20,5	20	24
18 10 14	10	G1/4	16,5	6,5	21,5	23,5	16	17
18 10 38	10	G3/8	16,5	7	23,5	23,5	20	24
18 12 38	12	G3/8	19	7	24	28	20	29
18 12 12	12	G1/2	19	8,5	28,5	28	20	38

MB 19

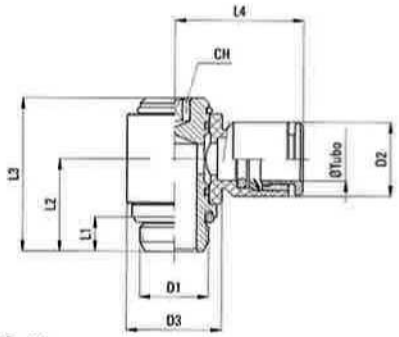
Gomito maschio cilindrico girevole prolungato — Swivelling Extended Elbow, male, parallel — Coude long tournant cylindrique, mâle — Verlängerte Winkelverschraubung, zylindrisch und drehbar



Tipo	Øe Tubo	D1	D2	L1	L2	L3	CH	g
19 04 M5	4	M5x0,8	9,7	4	23,5	15	9	8
19 04 18	4	G1/8	9,7	5	23,5	15	13	9
19 04 14	4	G1/4	9,7	6,5	25,5	15	16	12
19 06 M5	6	M5x0,8	12	4	26	19	12	13
19 06 18	6	G1/8	12	5	27,5	19	13	13
19 06 14	6	G1/4	12	6,5	29,5	19	16	16
19 08 18	8	G1/8	14	5	30,5	20,5	14	18
19 08 14	8	G1/4	14	6,5	32,5	20,5	16	19
19 08 38	8	G3/8	14	7	34,5	20,5	20	27
19 10 14	10	G1/4	16,5	6,5	37	23,5	16	28
19 10 38	10	G3/8	16,5	7	38	23,5	20	31

MB 20

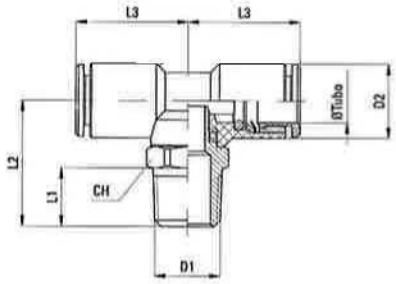
Girevole con anello singolo | Swivelling fitting with banjo ring | Raccord tournant avec banjo | Schwenkverschraubung mit Ringstück



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	L4	CH	g
20 04 M5	4	M5x0,8	9,7	9,7	4	11	19	17	4	6
20 04 18	4	G1/8	9,7	15	5	15	25,5	18,5	4	12
20 06 M5	6	M5x0,8	12	9,7	4	11	19	21	4	6
20 06 18	6	G1/8	12	15	5	15	25,5	22	4	13
20 06 14	6	G1/4	12	18	6,5	17,5	29	23,5	5	22
20 08 18	8	G1/8	14	15	5	15	25,5	22,5	4	14
20 08 14	8	G1/4	14	18	6,5	17,5	29	24	5	22
20 08 38	8	G3/8	14	23	7	19,5	32,5	26	6	35
20 10 14	10	G1/4	16,5	18	6,5	17,5	29	26	5	23
20 10 38	10	G3/8	16,5	23	7	19,5	32,5	28	6	36

MB 21

T Centrale maschio conico girevole | Swivelling Tee, taper | Raccord à Té tournant, mâle conique | T-Verschraubung, schwenkbar und kegelig

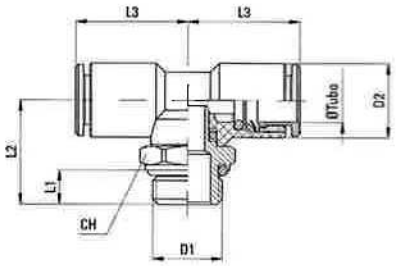


Tipo	Øe Tubo	D1	D2	L1	L2	L3	CH	g
21 04 18	4	R1/8	9,7	7,5	17	15	10	8
21 04 14	4	R1/4	9,7	11	20,5	15	14	13
21 06 18	6	R1/8	12	7,5	18,5	19	12	12
21 06 14	6	R1/4	12	11	22,5	19	14	16
21 08 18	8	R1/8	14	7,5	20	20,5	14	15
21 08 14	8	R1/4	14	11	23,5	20,5	14	18
21 08 38	8	R3/8	14	11,5	24,5	20,5	17	24
21 10 14	10	R1/4	16,5	11	25,5	23,5	16	22
21 10 38	10	R3/8	16,5	11,5	26,5	23,5	17	27

Vite teflonata - Teflon-coated thread - Filet prétefloné - Gewinde mit Teflon

MB 22

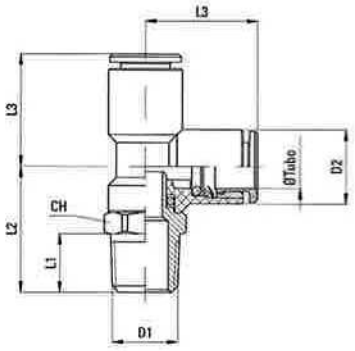
T Centrale maschio cilindrico girevole | Swivelling Tee, parallel | Raccord à Té tournant, mâle cylindrique | T-Verschraubung, schwenkbar und zylindrisch



Tipo	Øe Tubo	D1	D2	L1	L2	L3	CH	g
22 04 M5	4	M5x0,8	9,7	4	15	15	9	7
22 04 18	4	G1/8	9,7	5	15	15	13	9
22 04 14	4	G1/4	9,7	6,5	17	15	16	13
22 06 M5	6	M5x0,8	12	4	15	19	12	10
22 06 18	6	G1/8	12	5	16,5	19	13	12
22 06 14	6	G1/4	12	6,5	18,5	19	16	15
22 08 18	8	G1/8	14	5	17,5	20,5	14	14
22 08 14	8	G1/4	14	6,5	19,5	20,5	16	17
22 08 38	8	G3/8	14	7	21,5	20,5	20	27
22 10 14	10	G1/4	16,5	6,5	21,5	23,5	16	20
22 10 38	10	G3/8	16,5	7	23,5	23,5	20	28

MB 23

T Laterale maschio conico girevole | Lateral Swivelling Tee, taper | Raccord à Té latéral conique, tournant | T-Schwenkverschraubung, kegelig

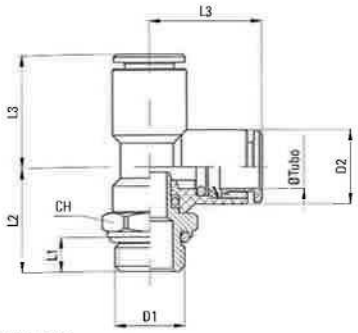


Tipo	Øe Tubo	D1	D2	L1	L2	L3	CH	g
23 04 18	4	R1/8	9,7	7,5	17	15	10	8
23 04 14	4	R1/4	9,7	11	20,5	15	14	14
23 06 18	6	R1/8	12	7,5	18,5	19	12	12
23 06 14	6	R1/4	12	11	22,5	19	14	16
23 08 18	8	R1/8	14	7,5	20	20,5	14	15
23 08 14	8	R1/4	14	11	23,5	20,5	14	18
23 08 38	8	R3/8	14	11,5	24,5	20,5	17	23
23 10 14	10	R1/4	16,5	11	25,5	23,5	16	22
23 10 38	10	R3/8	16,5	11,5	26,5	23,5	17	27

Vite teflonata - Teflon-coated thread - Filet prétefloné - Gewinde mit Teflon

MB 24

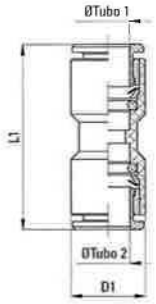
T Laterale maschio cilindrico girevole | Lateral Swivelling Tee, parallel | Raccord à Té latéral cylindrique, tournant | T-Schwenkverschraubung, zylindrisch



Tipo	Øe Tubo	D1	D2	L1	L2	L3	CH	g
24 04 M5	4	M5x0,8	9,7	4	15	15	9	7
24 04 18	4	G1/8	9,7	5	15	15	13	9
24 04 14	4	G1/4	9,7	6,5	17	15	16	13
24 06 M5	6	M5x0,8	12	4	15	19	12	10
24 06 18	6	G1/8	12	5	16,5	19	13	12
24 06 14	6	G1/4	12	6,5	18,5	19	16	15
24 08 18	8	G1/8	14	5	17,5	20,5	14	14
24 08 14	8	G1/4	14	6,5	19,5	20,5	16	17
24 08 38	8	G3/8	14	7	21,5	20,5	20	28
24 10 14	10	G1/4	16,5	6,5	21,5	23,5	16	20
24 10 38	10	G3/8	16,5	7	23,5	23,5	20	28

MB 25

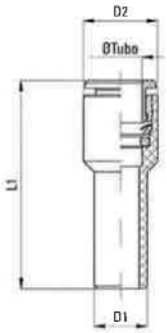
Giunzione Intermedia | Union | Union simple égale | Gerade Verbindung



Tipo	Øe Tubo1	Øe Tubo2	D1	L1	g
25 04 00	4	4	9,7	25,5	3
25 06 00	6	6	12	32	5
25 06 04	6	4	12	30	4
25 08 00	8	8	14	33,5	6
25 08 06	8	6	14	33	6
25 10 00	10	10	16,5	37,5	8
25 10 08	10	8	16,5	36,5	7
25 12 00	12	12	19	41	12

MB 26

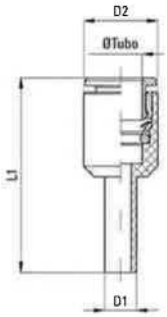
Riduzione | Reducer | Réduction | Reduzierstück



Tipo	Øe Tubo	D1	D2	L1	g
26 04 06	4	6	10	31	2
26 04 08	4	8	10	32	2
26 04 10	4	10	10	37	3
26 06 08	6	8	12	3	3
26 06 10	6	10	12	3	4
26 06 12	6	12	12	40	4
26 08 10	8	10	14	38,5	5
26 08 12	8	12	14	39,	6
26 10 12	10	12	16,5	4	7

MB 27

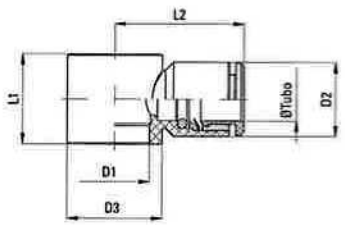
Riduzione Inversa | Enlarger | Réduction | Reduzierstück



Tipo	Øe Tubo	D1	D2	L1	g
27 06 04	6	4	12	33	3
27 08 06	8	6	14	33,5	4

MB 28

Anello singolo | Banjo Ring | Banjo simple | Ringstück

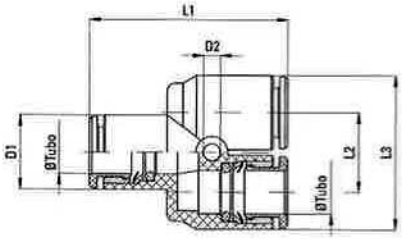


Tipo	Øe Tubo	D1	D2	D3	L1	L2	g
28 04 M5	4	M5	9,7	9,7	10	17	2
28 04 M5/R	4	7	9,7	9,7	10	17	2
28 04 18	4	1/8	9,7	15	15	18,5	3
28 06 M5/R	6	7	12	9,7	10	20,5	3
28 06 18	6	1/8	12	15	15	22	4
28 06 14	6	1/4	12	18	17	23,5	5
28 08 18	8	1/8	14	15	15	22,5	5
28 08 14	8	1/4	14	18	17	24	6
28 08 38	8	3/8	14	23	20	26	8
28 10 14	10	1/4	16,5	18	17	26	7
28 10 38	10	3/8	16,5	23	20	28	8

/R = Solo per regolatori di flusso - For flow controls only- Seulement pour les réducteurs de débit - Nur für Drosselrückschlagventil

MB 29

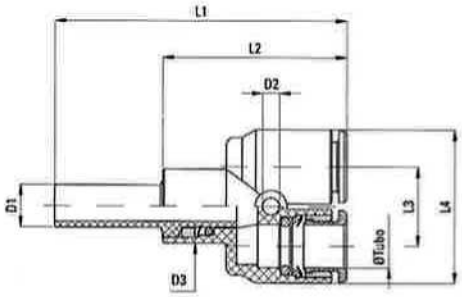
Raccordo a Y | Union Y | Raccord à Y | Y-Verschraubung



Tipo	Øe Tubo	D1	D2	L1	L2	L3	g
29 04 04	4	9,7	2,7	27	10,7	20,5	5
29 06 06	6	12	3,2	34	13	25	9
29 08 08	8	14	3,2	36	15	29	11
29 10 10	10	16	3,2	41	18	34,5	14

MB 30

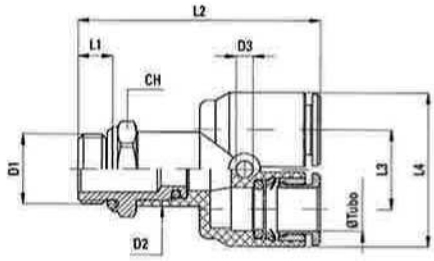
Y con codulo | Y Fitting | Raccord à Y avec douille | Y-Verschraubung



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	L4	g
30 04 04	4	4	2,7	9,7	40	25	10,7	20,5	5
30 04 06	4	6	2,7	9,7	43	25	10,7	20,5	6
30 04 08	4	8	2,7	9,7	45	25	10,7	20,5	6
30 06 06	6	6	3,2	12	50	32	13	25	9
30 08 08	8	8	3,2	14	54	34	15	29	12

MB 31

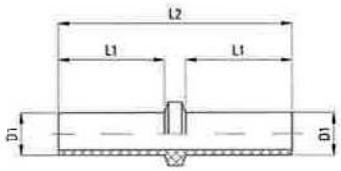
Y con attacco filettato cilindrico | Threaded Y fitting | Raccord à Y avec filetage | Y-Verschraubung mit Gewinde



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	L4	CH	g
31 04 M5	4	M5x0,8	9,7	2,7	4	34	10,7	20,5	9	9
31 04 18	4	G1/8	9,7	2,7	5	34	10,7	20,5	13	10
31 04 14	4	G1/4	9,7	2,7	6,5	36	10,7	20,5	16	14
31 06 18	6	G1/8	12	3,2	5	41	13	25	13	15
31 06 14	6	G1/4	12	3,2	6,5	43	13	25	16	19
31 08 18	8	G1/8	14	3,2	5	43	15	29	14	20
31 08 14	8	G1/4	14	3,2	6,5	45	15	29	16	21
31 08 38	8	G3/8	14	3,2	7	47	15	29	20	29

MB 32

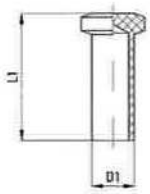
Giunzione | Connection | Douille de liaison | Verbindung



Tipo	D1	L1	L2	g
32 04 00	4	15	33	<1
32 06 00	6	18	40	1
32 08 00	8	20	45	2
32 10 00	10	22	48	3

MB 33

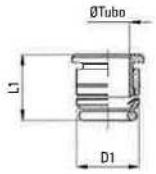
Tappo | Plug | Bouchon | Stopfen



Tipo	D1	L1	g
33 04 00	4	18	<1
33 06 00	6	22	<1
33 08 00	8	25	1
33 10 00	10	26	1

MB 34

Cartuccia | Cartridge | Cartouche | Patrone



Tipo	Øe Tubo	D1	L1	g
34 04 00	4	7,6	10,5	1
34 06 00	6	9,7	11,3	2
34 08 00	8	11,8	11,5	3
34 10 00	10	13,8	13,5	4

Qualora diverso dalla plastica, specificare il materiale dove si intende inserire la cartuccia.

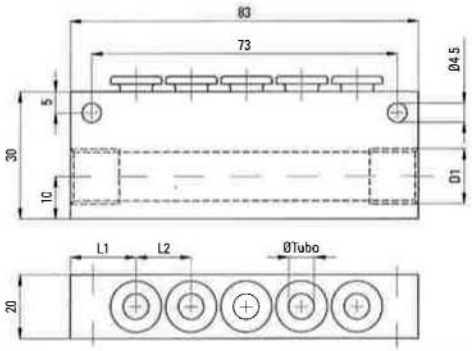
Pls always specify if body's material housing catridges differs from plastics.

Veuillez s'il Vous plaît toujours indiquer si le matériau du siège des cartouches n'est pas en plastique.

Bitte immer Werkstoff angeben, wenn der Körper wo die Patronen einzusetzten sind, nicht aus Kunststoff ist.

MB 35

Ripartitore | Manifold | Distributeur | Verteiler



Tipo	Øe Tubo	D1	L1	L2	N° Uscite	g
35 04 06	4	G1/4	14	11	6	112
35 06 05	6	G1/4	15,5	13	5	109
35 08 04	8	G3/8	17,5	16	4	102

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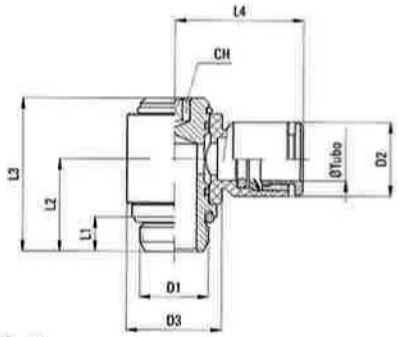
MB 20

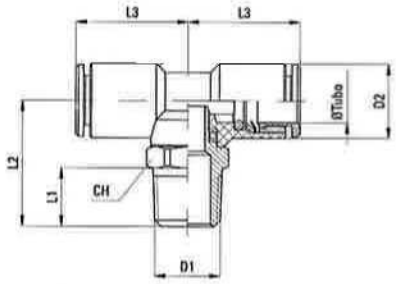
Girevole con anello singolo | Swivelling fitting with banjo ring | Raccord tournant avec banjo | Schwenkverschraubung mit Ringstück



Tipo	Øe Tubo	D1	D2	D3	L1	L2	L3	L4	CH	g
20 04 M5	4	M5x0,8	9,7	9,7	4	11	19	17	4	6
20 04 18	4	G1/8	9,7	15	5	15	25,5	18,5	4	12
20 06 M5	6	M5x0,8	12	9,7	4	11	19	21	4	6
20 06 18	6	G1/8	12	15	5	15	25,5	22	4	13
20 06 14	6	G1/4	12	18	6,5	17,5	29	23,5	5	22
20 08 18	8	G1/8	14	15	5	15	25,5	22,5	4	14
20 08 14	8	G1/4	14	18	6,5	17,5	29	24	5	22
20 08 38	8	G3/8	14	23	7	19,5	32,5	26	6	35
20 10 14	10	G1/4	16,5	18	6,5	17,5	29	26	5	23
20 10 38	10	G3/8	16,5	23	7	19,5	32,5	28	6	36

MB 21

T Centrale maschio conico girevole | Swivelling Tee, taper | Raccord à Té tournant, mâle conique | T-Verschraubung, schwenkbar und kegelig

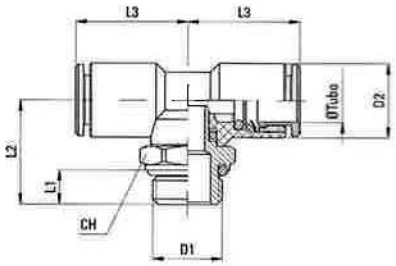


Tipo	Øe Tubo	D1	D2	L1	L2	L3	CH	g
21 04 18	4	R1/8	9,7	7,5	17	15	10	8
21 04 14	4	R1/4	9,7	11	20,5	15	14	13
21 06 18	6	R1/8	12	7,5	18,5	19	12	12
21 06 14	6	R1/4	12	11	22,5	19	14	16
21 08 18	8	R1/8	14	7,5	20	20,5	14	15
21 08 14	8	R1/4	14	11	23,5	20,5	14	18
21 08 38	8	R3/8	14	11,5	24,5	20,5	17	24
21 10 14	10	R1/4	16,5	11	25,5	23,5	16	22
21 10 38	10	R3/8	16,5	11,5	26,5	23,5	17	27

Vite teflonata - Teflon-coated thread - Filet prétefloné - Gewinde mit Teflon

MB 22

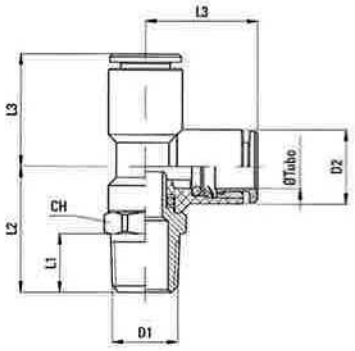
T Centrale maschio cilindrico girevole | Swivelling Tee, parallel | Raccord à Té tournant, mâle cylindrique | T-Verschraubung, schwenkbar und zylindrisch



Tipo	Øe Tubo	D1	D2	L1	L2	L3	CH	g
22 04 M5	4	M5x0,8	9,7	4	15	15	9	7
22 04 18	4	G1/8	9,7	5	15	15	13	9
22 04 14	4	G1/4	9,7	6,5	17	15	16	13
22 06 M5	6	M5x0,8	12	4	15	19	12	10
22 06 18	6	G1/8	12	5	16,5	19	13	12
22 06 14	6	G1/4	12	6,5	18,5	19	16	15
22 08 18	8	G1/8	14	5	17,5	20,5	14	14
22 08 14	8	G1/4	14	6,5	19,5	20,5	16	17
22 08 38	8	G3/8	14	7	21,5	20,5	20	27
22 10 14	10	G1/4	16,5	6,5	21,5	23,5	16	20
22 10 38	10	G3/8	16,5	7	23,5	23,5	20	28

MB 23

T Laterale maschio conico girevole | Lateral Swivelling Tee, taper | Raccord à Té latéral conique, tournant | T-Schwenkverschraubung, kegelig

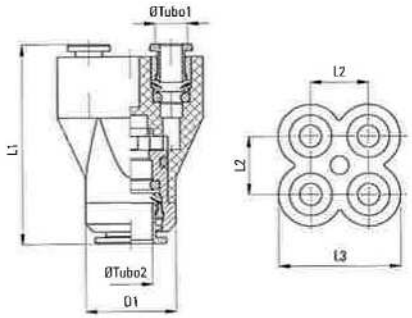


Tipo	Øe Tubo	D1	D2	L1	L2	L3	CH	g
23 04 18	4	R1/8	9,7	7,5	17	15	10	8
23 04 14	4	R1/4	9,7	11	20,5	15	14	14
23 06 18	6	R1/8	12	7,5	18,5	19	12	12
23 06 14	6	R1/4	12	11	22,5	19	14	16
23 08 18	8	R1/8	14	7,5	20	20,5	14	15
23 08 14	8	R1/4	14	11	23,5	20,5	14	18
23 08 38	8	R3/8	14	11,5	24,5	20,5	17	23
23 10 14	10	R1/4	16,5	11	25,5	23,5	16	22
23 10 38	10	R3/8	16,5	11,5	26,5	23,5	17	27

Vite teflonata - Teflon-coated thread - Filet prétefloné - Gewinde mit Teflon

MB 43

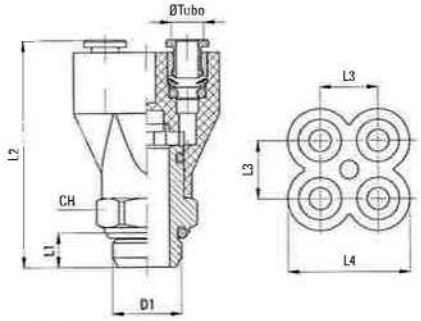
Doppia Biforcazione Intermedia | Double Y fitting | Raccord égale à Y double | Zweifache Y Verschraubung



Tipo	Øe Tubo1	Øe Tubo2	D1	L1	L2	L3	g
43 04 06	4	6	17	37	11	24	28
43 04 08	4	8	17	37	11	24	25

MB 44

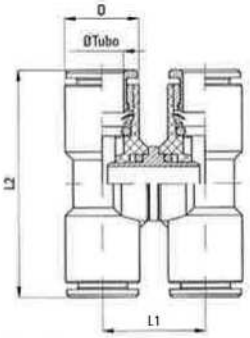
Doppia Biforcazione con attacco filettato | Double Y fitting with thread | Raccord à Y double avec filetage | Zweifache Y Verschraubung mit Gewinde



Tipo	Øe Tubo	D1	L1	L2	L3	L4	CH	g
44 04 18	4	G1/8	5	40,5	11	24	17	33
44 04 14	4	G1/4	6,5	42,5	11	24	17	32

MB 46

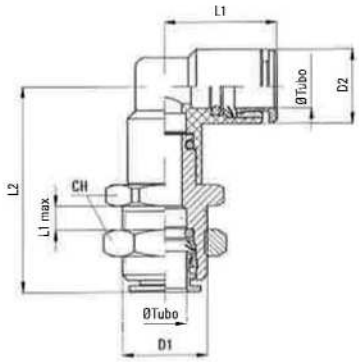
Croce intermedia girevole | Swivelling Cross Fitting | Croix tournante | Kreuzverschraubung, drehbar



Tipo	Øe Tubo	L1	L2	D	g
46 04 04	4	14	31	9,7	9
46 06 06	6	17	39	12	15
46 08 08	8	19,5	42	14	20
46 10 10	10	23	47	16	26

MB 48

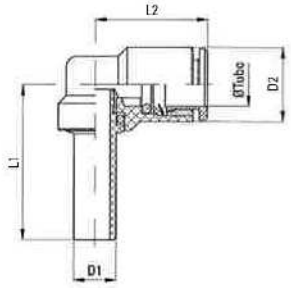
Gomito Passaparete | Elbow Bulkhead | Coude traversé de cloison | Winkelschottverschraubung



Tipo	Øe Tubo	L1 max	L2	L3	D1	D2	CH	g
48 04 04	4	6	28	13	M12x1	9,7	15	17
48 06 06	6	6	34,5	16,5	M14x1	12	18	31
48 08 08	8	8	38,5	18,5	M16x1	14	20	39
48 10 10	10	9,5	43	20,5	M18x1	16	22	51

MB 49

Gomito con codulo | Plug-in Elbow | L à broche encliquetable | Winkelverschraubung mit Steckzapfen



Tipo	Øe Tubo	D1	D2	L1	L2	g
49 04 04	4	4	9,7	21,5	15	2,5
49 06 06	6	6	12	25,5	19	4
49 08 08	8	8	14	28,5	20,5	5

LDA

Plastic Tubing & Hoses

Solutions for Life

RILSAN PA11

Unique Bio-Polyamide 11 of vegetable origin derived from castor oil. We produce flexible hoses in 12 different colours, linear hoses, spirals, and polytubes for various applications, thanks to the excellent characteristics of raw material (physical, thermic and chemical treatings). It is a PHL hose (plasticized and excellent resistance to the tall temperature and to the light). Hardness ±63 shoreD. This product has all the necessary qualification as provided in DIN 73378/74324 Normative.

RILSAN PA12

Polyamide 12 of chemical origin, rigid or flexible hardness. We produce a wide set of linear and spiral hoses in 8 different colours, fit for airbrake. The flexible type is HIPHL (plasticized and excellent resistance to the low temperature, steady to the light and to the temperature). Hardness ±61 shoreD. The rigid type is particularly fit to the passage of oil and fat. Hardness ±72 shoreD.

GRILAMID PA12 SELF-EXTINGUISH

Rigid Polyamide 12 of chemical origin, self-extinguish UL94 V2, product alogen free. We produce a wide set of light blue hoses, in bars of mt. 4 or in rolls, employed in the air plant. We can realize long line hoses without the use of butt joints. The hose can be cut only with the pipe cutter and it isn't effected by the condensation which the air passage could make. Hardness ±70 shoreD.

PA12 ANTISTATHIC - UNFLAMABLE

Polyamide 12 of chemical origin, unflamable UL94 V0, antistathic CEI-EN 50014/1993 (conductive Ω 10^3 - 10^4). Fit to eliminate electrostatic positions. We realize a wide set of black flexible hoses employed in the pomp of gasoline and in hosiery for contact with synthetic yarns. Hardness ±50 shoreD.

PA12 LONGLIFE

Flexible Polyamide 12 of chemical origin is HIPHL (plasticized and excellent resistance to the low temperature, steady to the light and to the temperature). Excellent resistance to the aging and dimensional stability to the tall temperature, without migration of plasticizer. Hardness ±63 shoreD. This product has all the necessary qualification as provided in DIN 73378/74324 Normative.

PA12 LONGLIFE EXTRAFLEX

Extraflexible Polyamide 12 of chemical origin. Thanks to the excellent pliability and elasticity of raw material, we produce a large range of hoses in 7 different colours. These hoses are appropriate for the passage of compressed air, for the inside sliding of metallic pieces, for mechanical parts in movement and robots. Hardness ±50 shoreD.

NYLON PA 6

Polyamide 6 of chemical origin. We produce linear hoses in 7 different colours, fit for the passage of oil and fat to low-medium pressure. Hardness ± 85 shoreD.

NYLON PA 6.6

Rigid Polyamide 6.6 of chemical origin. We produce linear hoses in black and neutral colours particularly fit for the passage of oil and fat to low-medium pressure. Hardness ± 96 shoreD.

NYLON P.10

Ultra-plasticized Polyamide 6. We produce linear hoses and spirals ideal for "bricolage". Hardness ± 57 shoreD.

KYNAR HD 4000 - KYNAR FLEX 2800

The rigid/flexible Vinylidene Poly-fluoride (PVDF), unflamable UL94 V0. Excellent resistance to the chemical agents, most aggressive too, impermeable to gas, excellent maintenance to the aging, a great dimensional stability, preserving a notable resistance to the bump. Hardness ± 80 shoreD and ± 68 shoreD.

PTFE - FEP - PFA

The main characteristics of Fluoropolymers are chemical inertness, high heat resistance, low coefficient of friction, UV resistance and excellent electrical insulation properties (FDA Certified). They are used where high temperatures in combination with aggressive med or critical environment require an excellent tubing; it is extremely inert and stable up to a temperature: from -60°C to +200/260°C. Hardness ±63 shoreD.

ELASTOLLAN C98

Polyurethane of chemical origin, ester-based. We produce a wide set of linear flexible hoses in 15 different colours, fit for air pneumatic, screening elements, gaskets for hydraulic elements, skid chains, cable pieces, couplings, inner lining, robots, hoses for the transport of abrasive material, plat hoses for expantion. Hardness ± 52 shoreD.

ELASTOLLAN 1190 EXTRA-FLEX

Polyurethane of chemical origin, ether-based. We produce a wide set of flexible hoses in 7 different colours, linear hoses, spirals, and polytubes fit for the passage of air and varnish dust. Hardness ± 45 shoreD.

ELASTOLLAN 1198 ANTI U.V.

Polyurethane stabilized at the high light. We produce a wide set of hoses in 5 different transparent colours. For its characteristic of repulsing U.V., this hose is fit for outside at direct sunlight. Hardness ± 52 shoreD.

ELASTOLLAN 1185 CRT

Polyurethane of chemical origin, ether-based with polyester braid reinforcement. Improved resistance to the abrasion and to the water, excellent flexibility and elasticity. Product fit for farm equipment, body works and tire changes. Hardness ± 54/58 shoreD.

PU FLAME RESISTANT SINGLE LAYER

Polyurethane single layer hose, unflamable UL94V0. The flexible hose suitable for the applications on welding machines, in the cooling circuits. Hardness ± 54/58 shoreD.

PU FLAME RESISTANT DOUBLE LAYER

DS is a calibrated spatter resistant hose in Polyamide 12. It is made stronger by a Polyurethane layer, unflamable UL94V0 to improve the protection from sparks and welding. The external case can be removed for the use of push-in fittings. Hardness ± 64 shoreD.

PU FLAME RESISTANT TRIPLE LAYER

TS is a calibrated spatter resistant hose in Polyamide 12. Outside it is made stronger by a Polyurethan layer, unflamable UL94V0. Beside two layers these is a PET pigtail reinforcement. The products are fit for improving the protection from sparks and welding. The external case can be removed for the use of push-in fittings. Hardness ± 64 shoreD.

POLYETHYLENE LOW DENSITY

Polyethylene Low Density of chemical origin. We produce a wide set of linear flexible hoses in 8 different colours, fit for pneumatic use. Hardness ± 46 shoreD.

POLYETHYLENE HIGH DENSITY

Polyethylene High Density of chemical origin. We produce linear hoses in black and in neutral colours particularly fit for pneumatic use. Hardness ± 64 shoreD.

AL.PE

Internal core in aluminium protected by Polyethylene and cover by black high density Polyethylene. For its composition, AL.PE can be formed in the chosed shape and preserve it without need of creaser tools. Perfect resistance to the light, environmental agents, to water, hydrocarburies and oils.

PACKAGING

On request all our hoses may be manufactured in boxes, available in lenghts of 25/50/100mt. All the hoses may be given on carton, plastic or wood wheels.

ACCESSORIES

We can supply large-small pipe cutters, hose clamps, fittings, unsintered PTFE tape and hose protectors.

poliuretano — polyurethane

- TUBI IN ELASTOLLAN SERIE C98 — *TYPE C98 POLYURETHANE LINEAR FLEXIBLE HOSES*
- TUBI IN ELASTOLLAN SERIE 1190 — *TYPE 1190 POLYURETHANE LINEAR FLEXIBLE HOSES*
- TUBI IN ELASTOLLAN SERIE 1198 ANTI U.V. — *TYPE 1198 POLYURETHANE LINEAR ANTI-ULTRAVIOLET*
- TUBI IN ELASTOLLAN SERIE 1185 — *TYPE 1185 POLYURETHANE LINEAR FLEXIBLE HOSES*
- TUBI IN ELASTOLLAN CON RINFORZO TESSILE — *POLYURETHANE LINEAR WITH BRAID REINFORCEMENT*
- TUBI ANTISCINTILLA MONOSTRATO — *FLEXIBLE FLAME RESISTANT SINGLE LAYER*
- TUBI ANTISCINTILLA DOPPIO STRATO — *FLEXIBLE FLAME RESISTANT DOUBLE LAYER*
- TUBI ANTISCINTILLA TRIPLO STRATO — *FLEXIBLE FLAME RESISTANT TRIPLE LAYER*
- SPIRALI IN ELASTOLLAN CON CODOLI — *POLYURETHANE SPIRAL HOSES WITH STRAIGH TERMINAL*

ELASTOLLAN C98

Poliuretano di origine chimica a base estere. Realizziamo una vasta gamma di tubi fino a 15 diversi colori, idonei per il passaggio di aria compressa, per elementi di schermaggio, guarnizioni per elementi idraulici, catene da neve, catene portacavi, robotica, manipolatori, tubi per trasporto di materiale abrasivo e tubi piatti per espansione. Durezza ± 52 shoreD.

Polyurethane of chemical origin, ester-based. We produce a wide set of linear flexible hoses in 15 different colours, fit for air pneumatic, screening elements, gaskets for hydraulic elements, skid chains, cable pieces, couplings, inner lining, robots, hoses for the transport of abrasive material, plat hoses for expantion. Hardness ± 52 shoreD.

ELASTOLLAN 1190 EXTRA-FLEX

Poliuretano di origine chimica a base etere. Realizziamo un vasto assortimento di tubi mono lineari, multipli e spiralati, in 7 diversi colori, idonei per il passaggio di aria e polveri di vernice. Durezza ± 45 shoreD.

Polyurethane of chemical origin, ether-based. We produce a wide set of flexible hoses in 7 different colours, linear hoses, spirals, and polytubes fit for the passage of air and varnish dust. Hardness ± 45 shoreD.

ELASTOLLAN 1198 ANTI U.V.

Poliuretano stabilizzato alla luce. Realizziamo una vasta gamma di tubi in 5 diversi colori trasparenti. Grazie alla sua particolarità nel respingere i raggi ultra violetti trova impiego negli ambienti esterni a diretto contatto con la luce del sole. Durezza ± 52 shoreD.

Polyurethane stabilized at the high light. We produce a wide set of hoses in 5 different transparent colours. For its characteristic of repulsing U.V., this hose is fit for outside at direct sunlight. Hardness ± 52 shoreD.

ELASTOLLAN 1185 CRT

Poliuretano di origine chimica a base etere con rinforzo tessile in poliestere. Ottima resistenza all'abrasione, elasticità e resistenza idrolitica. Impiego ideale nel settore agricolo, carrozzerie e gommisti. Durezza ± 54/58 shoreD.

Polyurethane of chemical origin, ether-based with polyester braid reinforcement. Improved resistance to the abrasion and to the water, excellent flexibility and elasticity. Product fit for farm equipment, body works and tire changes. Hardness ± 54/58 shoreD.

PU ANTISCINTILLA MONOSTRATO - PU FLAME RESISTANT SINGLE LAYER

Poliuretano ignifugo UL94 V0. Realizziamo gamma di tubi flessibili idonei nei circuiti di raffreddamento nelle applicazioni in ambienti di saldatura. Durezza ± 54/58 shoreD.

Polyurethane single layer hose, unflamable UL94 V0. The flexible hose suitable for the applications on welding machines, in the cooling circuits. Hardness ± 54/58 shoreD.

ANTISCINTILLA DOPPIO STRATO - PU FLAME RESISTANT DOUBLE LAYER

Poliammide 12 rivestita in Poliuretano ignifugo UL94 V0. La guaina esterna è idonea per una migliore protezione contro le scintille e le scorie di saldatura. La guaina esterna può essere facilmente asportata con l'apposito attrezzo per un perfetto utilizzo con i raccordi rapidi. Durezza ± 64 shoreD.

DS is a calibrated spatter resistant hose in Polyamide 12. It is made stronger by a Polyurethane layer, unflamable UL94 V0 to improve the protection from sparks and welding. The external case can be removed for the use of push-in fittings. Hardness ± 64 shoreD.

ANTISCINTILLA TRIPLO STRATO - PU FLAME RESISTANT TRIPLE LAYER

Poliammide 12 rivestita in Poliuretano ignifugo UL94 V0 con rinforzo treccia in PET tra i due diversi prodotti. Idoneo per una migliore protezione contro scintille e scorie di saldatura. Durezza ± 64 shoreD.

TS is a calibrated spatter resistant hose in Polyamide 12. Outside it is made stronger by a Polyurethane layer, unflamable UL94 V0. Beside two layers these is a PET pigtail reinforcement. The products are fit for improving the protection from sparks and welding. The external case can be removed for the use of push-in fittings. Hardness ± 64 shoreD.

RILSAN® PA 11 - PHL

Linear flexible hose

TEMPERATURE °C

RILSAN PA11 can be used in a range of temperatures from -40°C to + 80°C. Here we state a table concerning the pressures expressed in % as a function of temperatures.

20°	30°	40°	50°	60°	70°	80°
100%	83%	72%	64%	58%	52%	47%

TOLLERANCE

± 0,07 - *on the thickness of the wall*
± 0,07 - *on the outside Ø until 10 mm*
± 0,1 - *on the outside Ø from 12 to 25 mm*
± 0,15 - *on the outside Ø from 26 to 40 mm*
± 0,5% - *on the weight*

Until outside Ø 5 the hose is delivered in rolls of 100 mt.
From outside Ø 6 in rolls of 100 mt. each, on request of 50 and 25 mt.

RILSAN®

*Tubes realized with **RILSAN PA 11** are fit for airbrake because the product has all the necessary qualification as provided in **DIN 74324** Norm.*

COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	burst ATM	working ATM
TR 0,5x1,1	1,1	0,5	0,79	10	150	50
TR 1x2	2	1	2,47	10	133	44
TR 1,5x2	2	1,5	1,44	20	57	19
TR 1,5x2,5	2,5	1,5	3,30	20	100	33
TR 1,6x2,5	2,5	1,6	3,04	20	88	29
TR 1x3	3	1	6,59	15	200	67
TR 1,5x3	3	1,5	5,56	12	133	44
TR 2x3	3	2	4,12	15	80	27
TR 2,5x3	3	2,5	2,27	25	36	12
TR 1,6x3,17	3,17	1,6	6,17	10	132	44
TR 2,18x3,17	3,17	2,18	4,37	20	74	25
TR 3x3,5	3,5	3	2,68	30	31	10
TR 1x4	4	1	12,36	10	240	80
TR 1,5x4	4	1,5	11,33	15	182	61
TR 2x4	4	2	9,89	20	133	44
TR 2,3x4	4	2,3	8,83	20	108	36
TR 2,5x4	4	2,5	8,04	20	92	31
TR 2,7x4	4	2,7	7,18	25	78	26
TR 3x4	4	3	5,77	25	57	19
TR 3,5x4	4	3,5	3,09	35	27	9
TR 3,1x4,75	4,75	3,1	10,68	30	84	28
TR 3x5	5	3	13,19	25	100	33
TR 3,25x5	5	3,25	11,90	27	85	28
TR 3,5x5	5	3,5	10,51	30	71	24
TR 4x5	5	4	7,42	50	44	15
TR 3x6	6	3	21,94	30	133	44
TR 3,5x6	6	3,5	19,30	30	105	35
TR 3,6x6	6	3,6	18,72	30	100	33
TR 4x6	6	4	16,49	35	80	27
TR 4,5x6	6	4,5	12,98	40	57	19
TR 4,35x6,35	6,35	4,35	17,64	40	75	25
TR 4x7	7	4	26,81	45	109	36
TR 5x7	7	5	19,78	38	67	22
TR 6,35x7,93	7,93	6,35	18,60	50	44	15
TR 4x8	8	4	39,00	40	133	44
TR 5x8	8	5	31,69	40	92	31
TR 6x8	8	6	23,08	40	57	19
TR 7x9	9	7	26,38	55	50	17
TR 7x9,52	9,52	7	34,31	50	61	20
TR 6x10	10	6	52,00	60	100	33
TR 6,5x10	10	6,5	46,92	60	85	28
TR 7x10	10	7	41,44	60	71	24
TR 7,5x10	10	7,5	35,55	50	57	19
TR 8x10	10	8	29,67	60	44	15
TR 8x12	12	8	65,00	60	80	27
TR 9x12	12	9	51,19	70	57	19
TR 10x12	12	10	36,27	85	36	12
TR 9,52x12,7	12,7	9,52	57,41	65	57	19
TR 10x14	14	10	78,00	80	67	22
TR 11x14	14	11	60,94	85	48	16
TR 12x14	14	12	42,25	90	31	10
TR 11x15	15	11	84,50	90	62	21
TR 12x15	15	12	65,81	90	44	15
TR 12,5x15	15	12,5	55,86	100	36	12
TR 13x15	15	13	45,50	95	29	10
TR 12x16	16	12	91,00	95	57	19
TR 14x16	16	14	48,75	100	27	9
TR 14x18	18	14	104,00	100	50	17
TR 15x18	18	15	80,44	140	36	12
TR 16x18	18	16	55,25	350	24	8
TR 16x20	20	16	117,00	130	44	15
TR 18x20	20	18	61,75	400	21	7
TR 18x22	22	18	130,00	200	40	13
TR 19x22	22	19	99,93	250	29	10
TR 20x22	22	20	68,25	400	19	6
TR 20x24	24	20	143,00	300	36	12
TR 22x25	25	22	114,56	300	26	9
TR 24x28	28	24	168,99	350	31	10
TR 25x30	30	25	223,43	400	36	12
TR 34x40	40	34	360,74	500	32	11

RILSAN® PA 12 HIPHL

Linear flexible hose

COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	burst ATM	working ATM
12R 1x2	2	1	2,43	10	133	44
12R 1,5x3	3	1,5	5,46	15	133	44
12R 2x3	3	2	4,04	15	80	27
12R 1,9x3,3	3,3	1,9	5,89	15	108	36
12R 2x4	4	2	9,70	15	133	44
12R 2,5x4	4	2,5	7,88	20	92	31
12R 2,7x4	4	2,7	7,04	25	78	26
12R 4x6	6	4	16,17	35	80	27
12R 5,5x8	8	5,5	27,29	40	74	25
12R 5x8	8	5	31,53	40	92	31
12R 6x8	8	6	22,64	40	57	19
12R 7,5x10	10	7,5	35,37	50	57	19
12R 8x10	10	8	29,11	60	44	15
12R 8x12	12	8	64,68	61	80	27
12R 9x12	12	9	50,94	70	57	19
12R 10x12	12	10	35,58	85	36	12
12R 11x14	14	11	60,64	85	48	16
12R 12x14	14	12	42,04	90	31	10
12R 12x15	15	12	65,49	90	44	15
12R 12,5x15	15	12,5	55,59	100	36	12
12R 16x20	20	16	116,43	130	44	15
12R 18x22	22	18	129,37	200	40	13

TEMPERATURE °C

RILSAN PA12 can be used in a range of temperatures from -40°C to + 80°C. Here we state a table concerning the pressures expressed in % as a function of temperatures.

20°	30°	40°	60°	80°
100%	83%	72%	58%	47%

TOLLERANCE

± 0,07 - *on the thickness of the wall*
± 0,07 - *on the outside Ø until 10 mm*
± 0,1 - *on the outside Ø from 12 to 22 mm*
± 0,5% - *on the weight*

Until outside Ø 5 the hose is delivered in rolls of 100 mt.
From outside Ø 6 in rolls of 100 mt. and on request of 50 and 25 mt.

RILSAN®

Is an international trade mark granted by ARKEMA
*Tubes realized with **RILSAN PA 12** are fit for airbrake because the product has all the necessary qualification as provided in **DIN 73378** Norm.*

PA 12 PHL

For automatic loading of grains

COD.	Dimensions		Weight	In mt. 6 bars
	e Ø o	i Ø i	gr. mt	
12PHL 44x51	51	44	537,69	"
12PHL 50x60	60	50	889,41	"
12PHL 55x63	63	55	763,27	"
12PHL 60x70	70	60	1051,12	"
12PHL 62x70	70	62	853,83	"
12PHL 70x80	80	70	1212,83	"
12PHL 80x90	90	80	1374,54	"
12PHL 90x100	100	90	1536,25	"

MULTITUBO RILSAN®

RILSAN® Polytube
Anti-abrasion Polyurethan Jacket

UNDER REQUEST HOSES WITH DIFFERENT DIAMETER:

- *On request we could combine hoses with electric cable in rolls of 500 meters too.*
- *Polytube with different products.*
  ex.: RILSAN + POLIETILENE o RILSAN + POLIURETANO
- *We could produce spiral with polytube.*

COD	Dimensions		N° of hoses	Ingombro	Section
	e Ø o	i Ø i		mm	
MTR 2x4x2	4	2	2	9x5	
MTR 2,7x4x2	4	2,7	2	9x5	
MTR 4x6x2	6	4	2	13x7	
MTR 6x8x2	8	6	2	18x10	
MTR 8x10x2	10	8	2	22x12	
MTR 10x12x2	12	10	2	26x14	
MTR 2x4x3	4	2	3	13x5	
MTR 2,7x4x3	4	2,7	3	13x5	
MTR 4x6x3	6	4	3	14x14 - 20x8	
MTR 6x8x3	8	6	3	26x10	
MTR 8x10x3	10	8	3	32x12	
MTR 2x4x4	4	2	4	17x5	
MTR 2,7x4x4	4	2,7	4	17x5	
MTR 4x6x4	6	4	4	14x14 - 26x8	
MTR 6x8x4	8	6	4	18x18	
MTR 8x10x4	10	8	4	22x22	
MTR 2x4x5	4	2	5	13x8	
MTR 2,7x4x5	4	2,7	5	13x8	
MTR 4x6x5	6	4	5	20x12	
MTR 6x8x5	8	6	5	26x16	
MTR 2x4x6	4	2	6	14x10	
MTR 2,7x4x6	4	2,7	6	14x10	
MTR 4x6x6	6	4	6	20x14	
MTR 6x8x6	8	6	6	26x18	
MTR 2x4x7	4	2	7	14x14	
MTR 2,7x4x7	4	2,7	7	14x14	
MTR 4x6x7	6	4	7	20x20	
MTR 6x8x7	8	6	7	26x26	
MTR 2x4x8	4	2	8	14x13	
MTR 2,7x4x8	4	2,7	8	14x13	
MTR 4x6x8	6	4	8	20x19	
MTR 6x8x8	8	6	8	28x26	
MTR 2x4x9	4	2	9	14x14	
MTR 2,7x4x9	4	2,7	9	14x14	
MTR 4x6x9	6	4	9	20x20	
MTR 6x8x9	8	6	9	32x26	
MTR 2x4x10	4	2	10	18x14	
MTR 2,7x4x10	4	2,7	10	18x14	
MTR 4x6x10	6	4	10	26x20	
MTR 6x8x10	8	6	10	36x26	
MTR 2x4x12	4	2	12	18x14	
MTR 2,7x4x12	4	2,7	12	18x14	
MTR 4x6x12	6	4	12	26x20	

RILSAN® PA 12 HR tipo "0"

PA 12 HR type "0" - Linear stiff
High resistance hose

COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	burst ATM	working ATM
12R0 2,5x4	4	2,5	7,88	30	194	55
12R0 3x4	4	3	5,66	30	120	34
12R0 3x6	6	3	21,83	45	280	80
12R0 4x6	6	4	16,17	45	168	48
12R0 5x8	8	5	31,53	62	194	55
12R0 6x8	8	6	22,64	65	120	34
12R0 8x10	10	8	29,11	80	93	27
12R0 10x12	12	10	35,58	100	76	22

The hose is delivered in rolls of 100 mt.

TEMPERATURE °C

RILSAN PA12 can be used in a range of temperatures from -40°C to + 80°C. Here we state a table concerning the pressures expressed in % as a function of temperatures.

-10°	0°	20°	30°	40°	50°	60°	80°
120%	110%	100%	83%	72%	64%	52%	47%

TOLLERANCE

± 0,07 - *on the thickness of the wall*
± 0,07 - *on the outside Ø until 10 mm*
± 0,1 - *on the outside from 12 mm*
± 0,5% - *on the weight*

AVAILABLE COLOURS

Neutral and Black

APPLICATIONS

Particularly fit to the passage of oil and fat

RILSAN ®

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POLIAMMIDE 12

Polyamide 12 linear flexible hose
Antistathic: CEI-EN 50014/1993
Unflamable: UL 94 V0

COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	burst ATM	working ATM
12RAN 2.5x4	4	2,5	9,57	30	74	25
12RAN 4x6	6	4	19,63	45	45	15
12RAN 6x8	8	6	27,48	55	29	10
12RAN 8x10	10	8	35,33	70	21	7
12RAN 10x12	12	10	43,18	100	16	5

TOLLERANCE

± 0,1 - *on the thickness of the wall*
± 0,1 - *on the outside Ø*
± 0,5% - *on the weight*

The hose is delivered in rolls of 100 mt.

Fit product to eliminate electrostatic positions employed in the pomps of gasoline and in hosiery for contact with synthetic yarns.

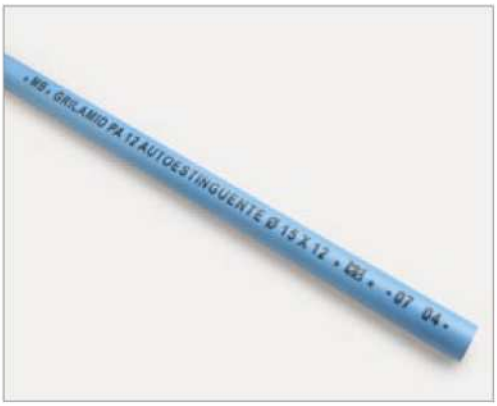
TEMPERATURA °C - *TEMPERATURE °C*

PA 12 can be used in a range of temperatures from -20°C to + 40°C.

GRILAMID® PA 12

GRILAMID PA 12

Self extinguish linear flexible hose



COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	burst ATM	working ATM
TRA 2,7x4	4	2,7	7,25	25	85	28
TRA 4x6	6	4	16,64	35	88	29
TRA 6x8	8	6	23,30	40	63	21
TRA 8x10	10	8	29,96	60	49	16
TRA 10x12	12	10	36,61	85	40	13
TRA 12,5x15	15	12,5	57,21	100	40	13
TRA 12x15	15	12	67,40	90	49	16
TRA 15x18	18	15	82,38	140	40	13
TRA 18x22	22	18	133,14	200	44	15
TRA 20x24	24	20	146,45	300	40	13
TRA 24x28	28	24	173,08	350	34	11
TRA 25x30	30	25	228,83	400	40	13
TRA 34x40	40	34	369,45	500	36	12

TEMPERATURA °C - *TEMPERATURE °C*

GRILAMID PA 12 can be used in a range of temperatures from -30°C to + 70°C. Here we state a table concerning the pressures expressed in % as a function of temperatures.

20°	30°	40°	50°	60°
100%	72%	64%	52%	47%

TOLLERANZE - *TOLLERANCE*

± 0,07 - *on the thickness of the wall*
± 0,07 - *on the outside Ø until Ø 12*
± 0,1 - *on the outside up Ø 14 to 24*
± 0,15 - *on the outside up Ø 25 to 40*
± 0,5% - *on the weight*

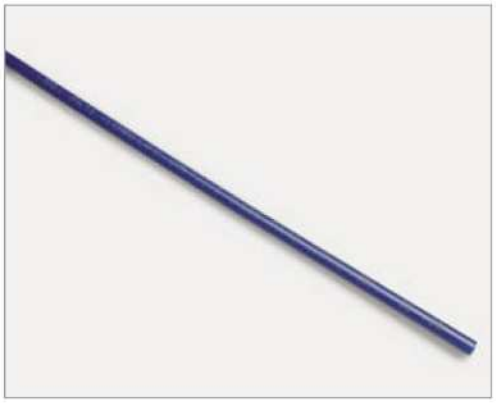
CARATTERISTICHE - *CHARACTERISTICS*

- *Product without halogen*
- *Inodourus*
- *Smooth surface*
- *Extention at 10 bars of bar of 4 mt 1 mm*
- *Reduced extention on the ground of pressure and temperature*
- *Extention on the ground of temperature 0,1 mm every °C*

Ex: bar of 4 mt of 15°C to 40°C (>Tx 0,1) = 25 x 0,1= 2,5 mm the bar will result of mm 4002,5

PA12 LONGLIFE HIPHL

Linear flexible hose



COD.	Dimensioni *Dimensions*		Peso *Weight*	Raggio di curvatura *Radius of curv.*	Pressioni a 20°C *Pressure at 20°C*	
	e Ø o	i Ø i	gr. mt	mm	scoppio *burst ATM*	esercizio *working ATM*
PA 2x4	4	2	9,51	20	167	56
PA 2,5x4	4	2,5	7,73	25	115	38
PA 2,7x4	4	2,7	6,91	25	97	32
PA 4x6	6	4	15,86	35	100	33
PA 5x8	8	5	30,92	40	115	38
PA 6x8	8	6	22,20	40	71	24
PA 8x10	10	8	28,54	60	56	19
PA 9x12	12	9	49,95	70	71	24
PA 10x12	12	10	34,89	85	45	15
PA 11x14	14	11	59,46	85	60	20

TOLLERANCE

± 0,05 - *on the thickness of the wall*
± 0,05 - *on the outside Ø until Ø 12*
± 0,10 - *from outside up Ø 14*
± 0,5% - *on the weight*

AVAILABLE COLOURS

Neutral, blue, red, yellow, green, black,light blue, orange

CARATTERISTICHE - *CHARACTERISTICS*

- *Product studied to satisfy norms DIN 73378/74324 PA 12 HIPHL*
- *Product without migration of plasticizer*
- *Excellent dimensional stability to the high temperatures*
- *Excellent resistance to the aging*

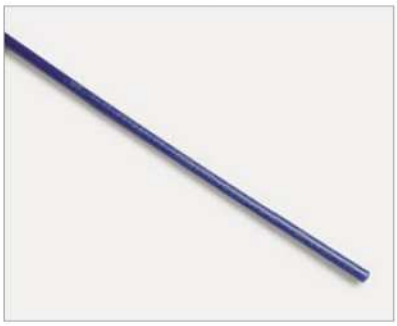
TEMPERATURA °C - *TEMPERATURE °C*

PA 12 LONGLIFE can be used in a range of temperatures from -40°C to + 100°C. Here we state a table concerning the pressures expressed in % as a function of temperatures.

20°	40°	60°	80°	100°
100%	85%	60%	40%	35%

PA12 EXTRAFLEX LONGLIFE

Linear extraflexible hose



COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	burst ATM	working ATM
PAJ 2,7x4	4	2,7	6,84	20	60	20
PAJ 4x6	6	4	15,70	35	62	21
PAJ 5x8	8	5	30,62	35	72	24
PAJ 4x6	8	6	21,98	40	44	15
PAJ 8x10	10	8	28,26	50	34	11
PAJ 9x12	12	9	49,46	50	44	15
PAJ 10x12	12	10	34,54	80	28	9
PAJ 11x14	14	11	58,88	120	37	12
Measures for automatic loading						
PAJ 5x10	10	5	58,88	20	103	34
PAJ 6x10	10	6	50,24	30	78	26
PAJ 6,5x10	10	6,5	45,33	30	66	22
PAJ 7x12	12	7	74,58	25	82	27
PAJ 7,5x12	12	7,5	68,88	25	72	24
PAJ 8x12	12	8	62,80	30	62	21
PAJ 8,5x14	14	8,5	97,14	30	76	25
PAJ 9x14	14	9	90,28	50	67	22
PAJ 9,5x14	14	9,5	83,01	60	59	20
PAJ 10x14	14	10	75,36	120	52	17
PAJ 10x15	15	10	98,13	110	62	21
PAJ 10,5x15	15	10,5	90,08	100	55	18
PAJ 11x16	16	11	105,98	110	57	19
PAJ 11,5x16	16	11,5	97,14	120	51	17

TEMPERATURE °C

PA 12 EXTRAFLEX can be used in a range of temperatures from -40°C to +100°C. Here we state a table concerning the pressures expressed in % as a function of temperatures.

20°	40°	60°	80°	100°
100%	85%	60%	40%	35%

TOLLERANCE

± 0,05 - *on the thickness of the wall*
± 0,05 - *on the outside Ø until Ø 12*
± 0,10 - *from outside up Ø 14*
± 0,5% - *on the weight*

CHARACTERISTICS

- *Product without migration of plasticizer*
- *Excellent dimensional stability to the high temperatures*
- *Excellent resistance to the aging*

APPLICATIONS

Fit product for compressed air, proper for the inside slide of metallic or wood parts, for vibrator, for mechanical parts in movement, manipulators, pneumatic, robots.
Appreciated for the particular flexibility and elasticity.

POLYAMIDE

RILSAN® PA11 SPIRALATO

RILSAN® PA11 Spiral hose

COD.	Dimensions		Spirals lenght			Ø mm
	e Ø o	i Ø i	linear hoses mt	out of work mt	working lenght mt	inside/outside
SR 2x4x10i20	4	2	10	0,460	6,50	20-28
SR 2x4x10i30	4	2	10	0,400	6,50	30-38
SR 2,5x4x10i20	4	2,5	10	0,460	6,50	20-28
SR 2,5x4x10i30	4	2,5	10	0,400	6,50	30-38
SR 4x6x25	6	4	25	0,870	16	50-62
SE 4x6x30	6	4	30	0,950	20	55-67
SE 6x8x25	8	6	25	1,000	16	60-76
SE 6x8x30	8	6	30	1,000	20	70-86
SR 8x10x25	10	8	25	0,950	16	80-100
SR 8x10x30	10	8	30	1,000	20	90-110
SR 10x12x30	12	10	30	1,000	20	110-134
SR 12x15x30	15	12	30	0,920	20	150-180
SR 12x16x30	16	12	30	0,880	20	160-192
SR 14x18x30	18	14	30	0,970	20	160-196
SR 15x18x30	18	15	30	0,970	20	160-196
SR 18x22x60	22	18	60	0,980	40	400-444
SR 20x24x25	24	20	25	0,950	18	200-248
SR 20x24x50	24	20	50	0,980	35	400-448

TEMPERATURA °C - *TEMPERATURE °C*

For working pressures related to temperature, pls. see the table of LINEAR hoses.
To avoid any alteration we advise you to employ RILSAN spirals within -20° / +60°C.

Our normal and spiral hoses in RILSAN® produced for cars, are according to the most known international regulations, such as : SAE - NF - DIN - BS - ISO.

STANDARD COLOURS

Blue, dark orange and on request red, yellow, green, black, neutral, light blue, grey, baby blue, light orange, violet.

RILSAN® PA 11 SPIRALATO

RILSAN® PA 11 Spiral hose with straight terminals

COD.	Dimensions		Spirals lenght				Ø mm	Terminals lenght
	e Ø o	i Ø i	linear hose mt	out of work mt	working lenght mt	coils n.	inside/outside	mm
SR 2x4x2,5CC	4	2	2,5	90	1,5	22	30-38	100
SR 2,5x4x2,5CC	4	2,5	2,5	90	1,5	22	30-38	100
SR 4x6x75CC	6	4	7,5	252	5	41	50-62	130
SR 4x6x10CC	6	4	10	340	6,5	55	50-62	130
SR 4x6x15CC	6	4	15	515	10	84	50-62	130
SR 6x8x75CC	8	6	7,5	285	5	33	60-76	130
SR 6x8x10CC	8	6	10	390	6,5	45	60-76	130
SR 6x8x15CC	8	6	15	586	10	68	60-76	130
SR 8x10x75CC	10	8	7,5	280	5	25	80-100	170
SR 8x10x10CC	10	8	10	380	6,5	34	80-100	170
SR 8x10x15CC	10	8	15	565	10	51	80-100	170
SR 10x12x75CC	12	10	7,5	240	5	19	100-120	180
SR 10x12x10CC	12	10	10	350	6,5	27	100-120	180
SR 10x12x15CC	12	10	15	535	10	41	100-120	180
SR 12x15x10CC	15	12	10	285	6	17	160-190	200
SR 12x15x15CC	15	12	15	436	10	26	160-190	200
SR 14x18x10CC	18	14	10	300	6	16	160-196	200
SR 14x18x15CC	18	14	15	470	10	25	160-196	200
SR 15x18x10CC	18	15	10	300	6	16	160-196	200
SR 15x18x15CC	18	15	15	470	10	25	160-196	200

ELASTOLLAN® serie C 98

Type C 98 Polyurethane Linear flexible hose

COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	burst ATM	working ATM
95C 2x4	4	2	11,68	20	67	22
95C 2,5x4	4	2,5	9,49	20	46	15
95C 2,7x4,3	4,3	2,7	10,90	20	46	15
95C 3x5	5	3	15,57	25	50	17
95C 4x6	6	4	19,47	30	40	13
95C 5x8	8	5	37,96	40	46	15
95C 5,5x8	8	5,5	32,85	45	37	12
95C 6x8	8	6	30,00	40	29	10
95C 6,5x10	10	6,5	56,21	30	42	14
95C 7x10	10	7	49,64	35	35	12
95C 7,5x10	10	7,5	42,59	40	29	10
95C 8x10	10	8	40,00	50	22	7
95C 8x12	12	8	77,87	30	40	13
95C 9x12	12	9	61,32	50	29	10

TEMPERATURE °C

POLYURETHANE type C, can be used in a range of temperatures from -40°C to + 60°C. Here we state a table concerning the working pressures expressed in % in as a function of temperatures.

20°	30°	40°	50°	60°
100%	83%	72%	64%	47%

TOLLERANCE

± 0,07 - *on the thickness of the wall*
± 0,07 - *on the outside Ø*
± 0,07 - *on the inside Ø*
± 0,5% - *on the weight*

APPLICATIONS

ELASTOLLAN TYPE C polyurethane can be used for air pneumatic, screening elements, gasket for hydraulic elements, skid chains, cable pieces, coupling, inner lining, robots, hoses for transport of abrasive material, plat hoses for expantion.

AVAILABLE COLOURS

Neutral, Blue, Red, Yellow, Green, Black, Light blue, Orange, Grey.

ELASTOLLAN® serie 1190
Tubo lineare flessibile

Type 1190 Polyurethane Linear flexible hose

COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	burst ATM	working ATM
190TE 1,5x3	3	1,5	6,09	15	53	18
190TE 1,6x3,17	3,17	1,6	6,76	15	53	18
190TE 2x4	4	2	10,83	20	53	18
190TE 2,5x4	4	2,5	8,80	20	37	12
190TE 2,7x4,3	4,3	2,7	10,11	20	37	12
190TE 3x5	5	3	14,44	25	40	13
190TE 3,2x6	6	3,2	23,25	25	49	16
190TE 3,6x6	6	3,6	20,80	30	40	13
190TE 4x6	6	4 (3,8)	18,06	30	32	11
190TE 4x8	8	4	43,33	30	53	18
190TE 5x8	8	5	35,21	40	37	12
190TE 5,5x8	8	5,5	30,47	45	30	10
190TE 6x8	8	6 (5,7)	25,28	40	23	8
190TE 5x10	10	5	67,71	20	53	18
190TE 6x10	10	6	62,97	25	46	15
190TE 6,5x10	10	6,5	52,13	30	34	11
190TE 7x10	10	7	46,04	35	28	9
190TE 7,5x12	12	7,5	79,22	25	37	12
190TE 8x12	12	8	72,22	30	32	11
190TE 8,5x12	12	8,5	64,77	40	27	9
190TE 9x12	12	9	56,87	50	23	8
190TE 8,5x14	14	8,5	111,72	30	39	13
190TE 9,5x14	14	9,5	95,47	60	31	10
190TE 9x14	14	9	103,82	50	35	12
190TE 10x14	14	10	86,66	120	27	9
190TE 10x16	16	10	140,83	105	37	12
190TE 10,5x16	16	10,5	131,58	100	33	11
190TE 11x16	16	11	121,87	110	30	10
190TE 12x16	16	12	101,11	125	23	8
190TE 13x19	19	13	173,33	145	30	10

TEMPERATURE °C

POLYURETHANE type C, can be used in a range of temperatures from -40°C to + 60°C. Here we state a table concerning the working pressures expressed in % in as a function of temperatures.

20°	30°	40°
100%	60%	40%

TOLLERANCE

± 0,07 - *on the thickness of the wall*
± 0,07 - *on the outside Ø*
± 0,07 - *on the inside Ø*
± 0,5% - *on the weight*

AVAILABLE COLOURS

Neutral, Red, Yellow, Green, Black, Light blue, Grey.

ELASTOLLAN® serie 1198

Type 1198 Polyurethane
Linear anti - ultraviolet

COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	burst ATM	working ATM
198TEA 2,5x4	4	2,5	9,03	20	37	12
198TEA 4x6	6	4	20,67	30	32	11
198TEA 5x8	8	5	36,13	40	37	12
198TEA 5,5x8	8	5,5	30,00	40	30	10
198TEA 6,5x10	10	6,5	53,49	30	34	11
198TEA 7,5x10	10	7,5	37,70	50	23	8
198TEA 8x12	12	8	74,10	30	32	11
198TEA 9x12	12	9	58,36	50	23	8

TEMPERATURA °C - *TEMPERATURE °C*

POLYURETHANE can be used in a range of temperatures from -40°C to +60°C. Here we state a table concerning the working pressures expressed in % in as a function of temperatures.

20°	30°	40°	50°	60°
100%	83%	72%	64%	47%

APPLICATIONS

Polyurethane 1198 repulsing U.V., fit for outside at direct sunlight.

TOLLERANCE

± 0,07 - *on the thickness of the wall*
± 0,07 - *on the outside Ø*
± 0,07 - *on the inside Ø*
± 0,5% - *on the weight*

AVAILABLE TRANSPARENT COLOURS

Neutral, light blue, violet, red, green.

ELASTOLLAN® serie 185CRT

185CRT Polyurethane
Linear flexible hose
with braid reinforcement

COD.	Dimensions		Pressure at 20°C	
	e Ø o	i Ø i	burst ATM	working ATM
185CRT 4x6	6	4	40	13
185CRT 5,5x8	8	5,5	40	13
185CRT 6,5x10	10	6,5	60	20
185CRT 7,5x10	10	7,5	40	13
185CRT 8x12	12	8	60	20
185CRT 11x16	16	11	45	15
185CRT 13x19	19	13	45	15

TEMPERATURA °C - *TEMPERATURE °C*

POLYURETHANE type C1185, can be used in a range of temperatures from -40°C to +60°C.

TECHNICAL-CONSTRUCTIVE FEATURES

- *Internal core in polyurethane (ether-hardness 85 shore A), polyester braid reinforcement, covered in polyurethane.*
- *Improved resistance to the abrasion.*
- *Excellent flexibility and elasticity.*
- *Excellent resistance in water.*

APPLICATIONS

The hoses in 1185 with reinforcement have been created for farm equipment, body works and tire changes.

FITTING

"Nut Fitting" racomended.

TOLLERANCE

± 0,15 - *on the thickness of the wall*
± 0,15 - *on the outside Ø*
± 0,15 - *on the inside Ø*

AVAILABLE COLOURS

Transparent blue and red.

ELASTOLLAN®

Polyurethane spiral hose with straight terminals

COD.	Dimensions		Linear hoses	Out of work	Working	Coils	Terminals left - right	Inside	Outside
	e Ø o	i Ø i	mt	mm	mt	n.	mm	mm	mm
SE 2,5x4x1,5CC	4	2,5	1,5	145	1	33	100 - 100	10	18
SE 2,5x4x3CC	4	2,5	3	300	2	68	100 - 100	10	18
SE 2,5x4x4CC	4	2,5	4	210	3	50	100 - 100	20	28
SE 4x6x2CC	6	4	2	140	1,5	21	100 - 100	20	32
SE 4x6x4CC	6	4	4	325	3	47	100 - 100	20	32
SE 5,5x8x2,5CC	8	5,5	2,5	190	2	22	120 - 500	25	41
SE 5,5x8x5CC	8	5,5	5	410	4	46	120 - 500	25	41
SE 5,5x8x7,5CC	8	5,5	7,5	660	6	78	120 - 500	25	41
SE 5,5x8x10CC	8	5,5	10	800	8	94	120 - 500	25	41
SE 5,5x8x12,5CC	8	5,5	12,5	1030	10	122	120 - 500	25	41
SE 6,5x10x2,5CC	10	6,5	2,5	140	2	13	120 - 500	40	60
SE 6,5x10x5CC	10	6,5	5	330	4	30	120 - 500	40	60
SE 6,5x10x7,5CC	10	6,5	7,5	500	6	45	120 - 500	40	60
SE 6,5x10x10CC	10	6,5	10	680	8	61	120 - 500	40	60
SE 6,5x10x12,5CC	10	6,5	12,5	800	10	76	120 - 500	40	60
SE 8x12x2,5CC	12	8	2,5	115	2	9	120 - 500	50	74
SE 8x12x5CC	12	8	5	305	3	24	120 - 500	50	74
SE 8x12x7,5CC	12	8	7,5	430	6	35	120 - 500	50	74
SE 8x12x10CC	12	8	10	600	8	48	120 - 500	50	74
SE 8x12x12,5CC	12	8	12,5	800	10	63	120 - 500	50	74
SE 8x12x15CC	12	8	15	930	13	77	120 - 120	50	74

POLYURETHANE

Flexible flame resistant hose Single layer

COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	burst ATM	working ATM
MS-TPU 2,5x6	6	2,5	31,00	8	82	27
MS-TPU 4x8	8	4	48,00	18	67	22
MS-TPU 6x10	10	6	65,00	25	50	17
MS-TPU 8x12	12	8	80,00	30	40	13
MS-TPU 10x14	14	10	97,00	50	33	11

GENERAL CHARACTERISTICS

- *Polyurethane 54ShD single layer hose*
- *Anti-Abrasion*
- *Unflamable UL94 V0*
- *Suitable for the applications on welding machines, in the cooling circuits.*

TEMPERATURE °C

PU SPARK RESISTANT can be used in a range of temperatures from -40°C to + 60°C. Here we state a table concerning the working pressures expressed in % in as a function of temperatures.

20°	40°	60°
100%	60%	40%

KYNAR® HD 4000

Linear stiff hose

COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	burst ATM	working ATM
PVDF 2x4	4	2	16,77	25	233	78
PVDF 2,5x4	4	2,5	13,62	30	162	54
PVDF 4x6	6	4	27,95	45	140	47
PVDF 6x8	8	6	39,12	65	100	33
PVDF 8x10	10	8	50,30	80	78	26
PVDF 10x12	12	10	61,48	100	64	21

TEMPERATURE °C

Maximum working temperature -40°C + 100°C. Here we state a table concerning the working pressures expressed in % in as a function of temperatures.

20°	30°	40°	60°	80°	90°
100%	72%	57%	52%	47%	25%

CHARACTERISTICS

KYNAR 4000 is a vinylidene poly-fluoride (PDVF) pure omopolymer semi-crystalline, containing around the 59% of fluorine. Is a noble material, without any additive, from the notable ownership, the most important of which are:

- *excellent resistance to the chemical products, the most aggressive too*
- *exceptional resistance to the aging, thanks to a total inactivity at the effect of ultraviolet rays*
- *excellent thermal stability, no sight yellowing under heat effect*
- *good resistance to abrasion*
- *good mechanical resistance*

The badger of crystallinity of Kynar 4000 has been selected to obtain excellent ownership, like impermeability to gas and the limited swelling in some solvents, preserving a notable resistance to the bump, and a great dimensional stability.

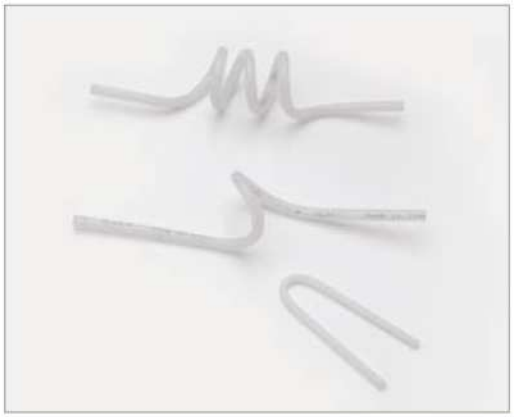
TOLLERANCE

± 0,07 - *on the thickness of the wall*
± 0,07 - *on the outside Ø until 8 mm*
± 0,1 - *on the outside Ø from 10 mm*
± 0,5% - *on the weight*

FLUOROPOLYMER

KYNAR® FLEX 2800

Linear flexible hose



COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	burst ATM	working ATM
TK 1x2	2	1	4,19	10	167	56
TK 2x3	3	2	6,99	15	100	33
TK 2x4	4	2	16,77	20	167	56
TK 2,5x4	4	2,5	13,62	20	115	38
TK 4x6	6	4	27,95	35	100	33
TK 6x8	8	6	39,12	40	71	24
TK 8x10	10	8	50,30	60	56	19
TK 10x12	12	10	61,48	85	45	15
TK 13x16	16	13	121,57	86	52	17

TEMPERATURA °C - *TEMPERATURE °C*

Temperatura massima di utilizzo -40°C a +90°C.
Qui di seguito riportiamo una tabella delle pressioni espresse in % in funzione delle temperature.

Maximum working temperature -40°C + 90°C. Here we state a table concerning the working pressures expressed in % in as a function of temperatures.

20°	40°	60°	80°	90°
100%	75%	62%	50%	25%

CHARACTERISTICS

KYNAR 2800 is a vinylidene poly-fluoride copolymer specifically designed for hoses requiring higher flexibility and improved resisteance to impact.

- *improved resistance at the abrasion*
- *exceptional flexibility in environmental temperature*
- *excellent flexibility at subzero temperatures to -20°C (-4°F)*
- *improved stress crack resistance until -30°C (-22°F)*
- *improved elongation at break*
- *excellent thermal stability*
- *excellent maintenance to the aging*
- *excellent resistance to the chemical egents, most aggressive too*
- *resistant at the environmental agents*
- *resistant to the attack of the mushrooms*
- *unflamable UL94 V0*

TOLLERANCE

± 0,05 - *on the thickness of the wall*
± 0,05 - *on the outside Ø until 8 mm*
± 0,1 - *on the outside Ø from 12 mm*

POLYETHYLENE LOW DENSITY
Linear flexible hose for pneumatic use

COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	scoppio burst ATM	esercizio working ATM
TP 1x2	2	1	2,17	10	63	21
TP 1,5x2,5	2,5	1,5	2,90	15	48	16
TP 1,5x3	3	1,5	4,89	15	63	21
TP 2x4	4	2	8,69	18	63	21
TP 2,5x4	4	2,5	7,06	20	44	15
TP 3x5	5	3	11,58	25	48	16
TP 3,5x6	6	3,5	17,19	25	50	17
TP 4x6	6	4	14,48	30	38	13
TP 4,35x6,35	6,35	4,35	15,49	30	36	12
TP 5x7	7	5	17,37	35	32	11
TP 4x8	8	4	34,74	35	63	21
TP 5x8	8	5	28,23	40	44	15
TP 6x8	8	6	20,27	40	27	9
TP 7x9	9	7	23,16	45	24	8
TP 6,35x9,52	9,52	6,35	36,41	50	38	13
TP 6x10	10	6	46,32	55	48	16
TP 6,5x10	10	6,5	41,80	55	40	13
TP 7x10	10	7	36,91	60	34	11
TP 8x10	10	8	26,06	60	21	7
TP 8x12	12	8	57,90	60	38	13
TP 9x12	12	9	45,60	65	27	9
TP 9,52x12,7	12,7	9,52	51,14	65	27	9
TP 10x12	12	10	31,85	80	17	6
TP 10x14	14	10	69,48	80	32	11
TP 11x14	14	11	54,28	80	23	8
TP 12x15	15	12	58,63	85	21	7
TP 12,5x15	15	12,5	49,76	100	17	6
TP 12x16	16	12	81,06	100	27	9
TP 10x18	18	10	162,12	105	54	18
TP 14x18	18	14	92,64	120	24	8
TP 15x18	18	15	71,65	160	17	6
TP 14x20	20	14	147,65	130	34	11
TP 15x20	20	15	126,66	140	27	9
TP 16x20	20	16	104,22	150	21	7
TP 18x25	25	18	217,85	180	31	10
TP 21x25	25	21	133,17	250	17	6
TP 20x26	26	20	199,76	200	25	8
TP 22x26	26	22	138,96	260	16	5
TP 25x32	32	25	288,78	290	23	8
TP 26x32	32	26	251,87	300	20	7

TEMPERATURE °C

Polyethylene can be used in a range of temperatures from -10°C to + 60°C. Here we state a table concerning the pressures expressed in % as a function of temperatures.

20°	30°	40°	50°	60°
100%	83%	72%	64%	57%

TOLLERANCE

± 0,07 - *on the thickness of the wall*
± 0,07 - *on the outside Ø up to 10*
± 0,1 - *on the outside Ø from 12 to 32*
± 0,5% - *on the weight*

AVAILABLE COLOURS

From outside Ø 4 to outside Ø 12 : neutral,red, yellow,blue, light blue, green and black

POLYETHYLENE HIGH DENSITY
Linear flexible hose for pneumatic use

COD.	Dimensions		Weight	Radius of curv.	Pressure at 20°C	
	e Ø o	i Ø i	gr. mt	mm	scoppio burst ATM	esercizio working ATM
TPHD2.5X4	2	2,5	6,90	20	115	38
TPHD4X6	6	4	14,07	35	100	33
TPHD5X8	8	5	27,60	40	115	38
TPHD6X8	8	6	19,36	40	71	24
TPHD8X10	10	8	24,45	60	56	19
TPHD9X12	12	9	43,56	70	71	24

TEMPERATURE °C

Polyethylene HD can be used in a range of temperatures from -10°C to +60°C. Here we state a table concerning the pressures expressed in % as a function of temperatures.

20°	30°	40°	50°	60°
100%	83%	72%	64%	57%

Accessory

- PIPE CUTTERS
- HOSE CLAMPS
- FITTINGS
- UNSINTERED PTFE TAPE
- HOSE PROTECTORS

Special products on request

We plan and realize personalized products according to individual specifics.

ARTICOLI SU RICHIESTA - SPECIAL PRODUCTS ON REQUEST

Packaging

The hoses are packed in transparent film. On request all our hoses may be manufactured in boxes, on carton, plastic or wood wheels.

Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage.

1) Products represented in this catalogue are designed for use in compressed air applications only (including vacuum), unless otherwise indicated in the catalogue. Do not use the products outside their design parameters. Contact the company when using the products in applications other than compressed air including vacuum).

2) The compatibility of pneumatic equipment is the responsibility of the person who designs the pneumatic system or decides its specifications. Since the products specified here are used in various operating conditions, their compatibility with the specific pneumatic system must be based on specifications or after analysis and/or tests to meet your specific requirements.

3) Only trained personnel should operate pneumatically operated machinery and equipment. Compressed air can be dangerous if an operator is unfamiliar with it. Assembly, handling or repair of pneumatic systems should be performed by trained and experienced operators.

4) Do not service machinery/equipment or attempt to remove components until safety is confirmed.

5) Before piping make sure that all debris, cutting oil, dust, etc. are removed from the piping.

6) Install an air dryer, aftercooler etc; perhaps excessive condensate in a compressed air system may cause valves and other pneumatic equipment to malfunction. If condensate in the drain bowl is not emptied on a regular basis, the bowl will over flow and allow the condensate to enter the compressed air lines. If the drain bowl is difficult to check and remove, it is recommended that a drain bowl with the auto-drain option be installed.

7) If the compressed air supply is contaminated with chemicals, synthetic materials, corrosive gas, etc., damage to the pneumatic equipment may occur.

8) Operation fluid: contact the company when using the product in applications other than compressed air (including vacuum).

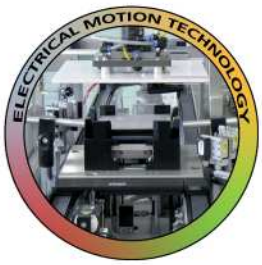
9) Inspection and maintenance of hoses and equipment should only be performed without pressure.

10) When hose is to be removed, confirm the safety process as mentioned above. Cut the supply pressure for the equipment and exhaust all residual compressed air in the system.

11) Before machinery/equipment is re-started, take measures to prevent quick extensions of the hose. (Bleed air into the system gradually to create back-pressure)

12) Contact the company if the product is to be used in any of the following conditions:
- *Conditions and environments beyond the given specifications in the catalogue, or if product is used outdoors.*
- *Installation on equipment in conjunction with atomic energy, railway, air navigation, vehicles, medical equipment, food and beverage, recreation equipment, emergency stop circuits, press applications, or safety equipment.*
- *An application which has the possibility of having negative effects on people, property, or animals.*
- *An environment where the product is directly exposed to corrosive gases, chemicals, salt water, water or steam.*
- *If the product has to be mounted in an area where exposure to direct sunlight can not be avoided.*
- *If the product is in a location where it is subject to strong vibrations and/or shock.*

13) Do not make any modification to the product.



We look forward to your application.

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