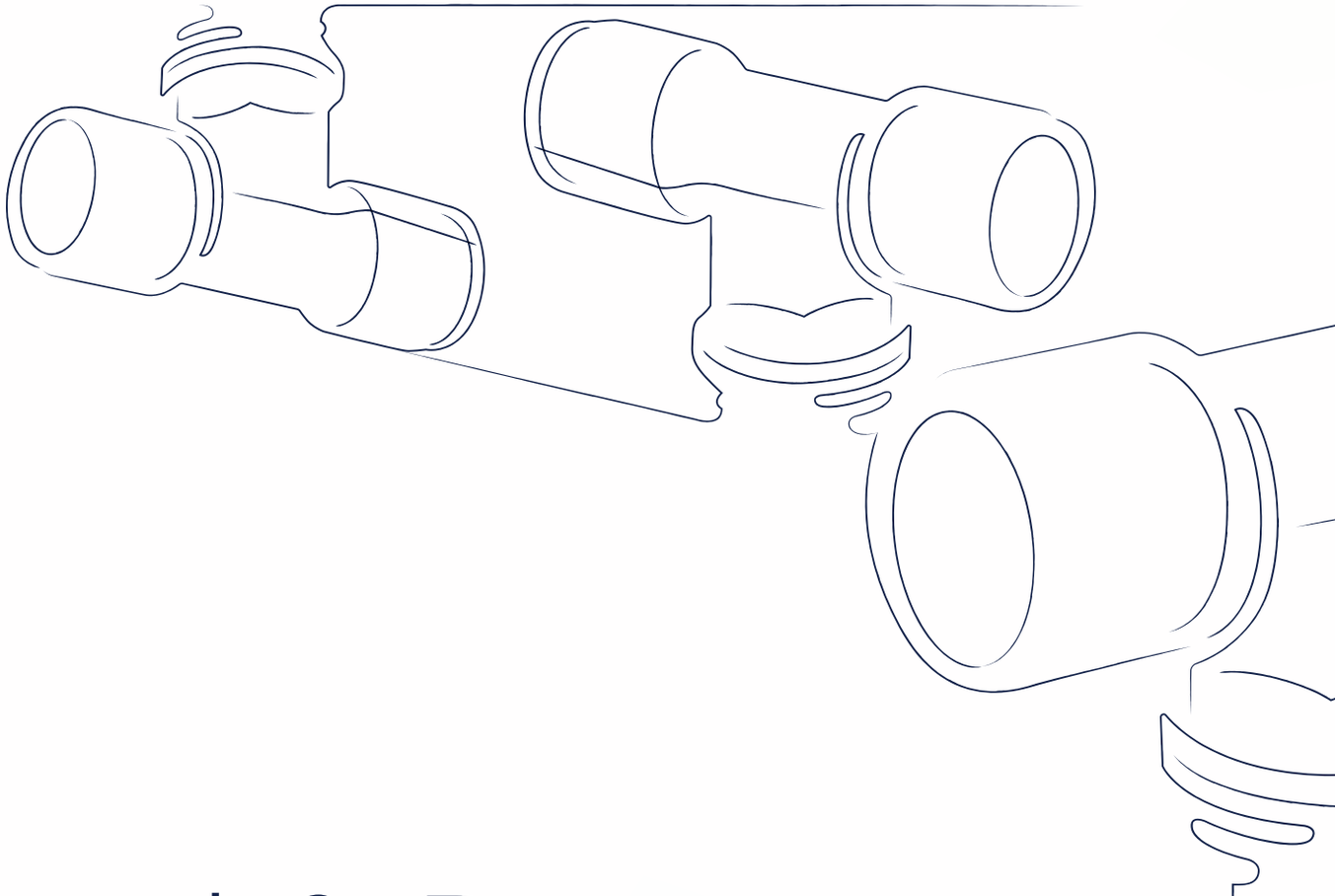


Food & Beverage FITTINGS

cmatic®

PNEUMATIC FITTINGS

1970 1980 1990 2000 2020

IT

Cmatic nasce agli inizi degli anni 70 come fornitore conto terzi di minuterie metalliche di precisione. In breve tempo l'azienda si espande e da attività artigianale evolve in una vera e propria attività industriale. Nonostante le accresciute dimensioni, Cmatic non perde l'attenzione alle mutevoli richieste del mercato e focalizza la propria attenzione sulla ricerca di nuovi materiali e sullo sviluppo di nuovi prodotti. Il Core Business aziendale trova quindi la sua dimensione definitiva nella Progettazione, Sviluppo e Produzione di Raccordi per l'Automazione Industriale, il che porta Cmatic a proporre una gamma di prodotti articolata e completa sia per la varietà dei materiali impiegati che per loro funzionalità in ogni applicazione pneumatica, il tutto senza tralasciare la disponibilità a sviluppare soluzioni custom in collaborazione con il Cliente.
Cmatic è un'azienda certificata ISO 9001 sin dal 1994. Nel 2018, grazie al continuo sviluppo del proprio Sistema di Management, consegue anche la certificazione del sistema di gestione ambientale ISO 14001 e ISO45001 per la Salute e Sicurezza dei lavoratori. L'impianto produttivo di Giussano, sito in quella Brianza che è il cuore industriale italiano, si sviluppa su oltre 8500 mq e permette la realizzazione di 20 milioni di raccordi divisi in più di 40 linee di prodotto e oltre 5000 configurazioni*.

* Dati 2024

EN

Cmatic was founded in the early 1970s as a contract supplier of precision metal parts. In a short time, the company expanded and evolved from a small business into a full-fledged industrial concern. Despite its increased size, Cmatic never loses sight of the changing demands of the market and focuses its attention on researching new materials and developing new products. The company's core business therefore finds its definitive dimension in the Design, Development and Production of Fittings for Industrial Automation. This has led Cmatic to offer an extensive, complete range of products, both in terms of the variety of materials used and of functionality in every pneumatic application, all without neglecting our willingness to develop custom solutions in collaboration with our clients.
Cmatic has been an ISO 9001 certified company since 1994. In 2018, thanks to the continuous development of its Management System, it also achieved ISO 14001 Environmental Management System certification and ISO45001 Occupational Health and Safety certification. The production plant in Giussano, located in the Brianza region of Italy's industrial heartland, covers more than 8500 square metres and produces 20 million fittings divided into more than 40 product lines and over 5000 configurations*.

* 2024 Data

Certificazioni e conformità di prodotto*
Product Certifications and Compliance*

NSF

MOCA

ROHS

REACH

Certificazioni aziendali
Company Certifications

IQNET 9001:2015

IQNET 14001:2015 & 45001:2015


IQNET

Building trust, together.

Certificate

SQS has issued an IQNET recognized certificate that the organization:

C. Matic S.p.A.
Via Matteotti, 32
IT-20833 Giussano Italy

has implemented and maintains a
Quality Management System

for the following scope:
Design and Manufacturing of fittings and accessories for pneumatic automation.
Procedures on how to carry out the weighing activities meant to determine the «Verified Gross Mass of the Container» (VGM), according to Method 2 as set forth by the amendments in Chapter VI, Rule 2, of SOLAS 74 Convention, as amended (IAF Scope 17, IAF Scope 31)

which fulfils the requirements of the following Standard:

ISO 9001:2015

Issued on: 2024-03-17
Expires on: 2027-03-16

Registration Number: CH-11318

Alex Stoichitoiu
President of IQNet

F. Müller
CEO SQS


SQS

Certificato

La SQS attesta che l'organizzazione di seguito indicata dispone di un sistema di gestione conforme ai requisiti della base normativa menzionata.

cmatic

C. Matic S.p.A.
Via Matteotti, 32
20833 Giussano (MB)
Italia

Campo di applicazione
Progettazione e Produzione di raccorderia ed accessori per l'automazione pneumatica.
Procedura per lo svolgimento delle attività di pesatura per la determinazione della "Massa Lorda Verificata del Contenitore" (VGM) secondo il Metodo 2 previsto dagli emendamenti al capitolo VI Regola 2 dalla convenzione SOLAS 74 come emendata (IAF Scope 17, IAF Scope 31)

Base normativa
ISO 9001:2015 Sistema di gestione per la qualità

No. di reg. 11318
Pagina 1 di 1

Validità 17.03.2024 – 16.03.2027
Emissione 17.03.2024

A. Grassi, Presidente SQS

F. Müller, CEO SQS

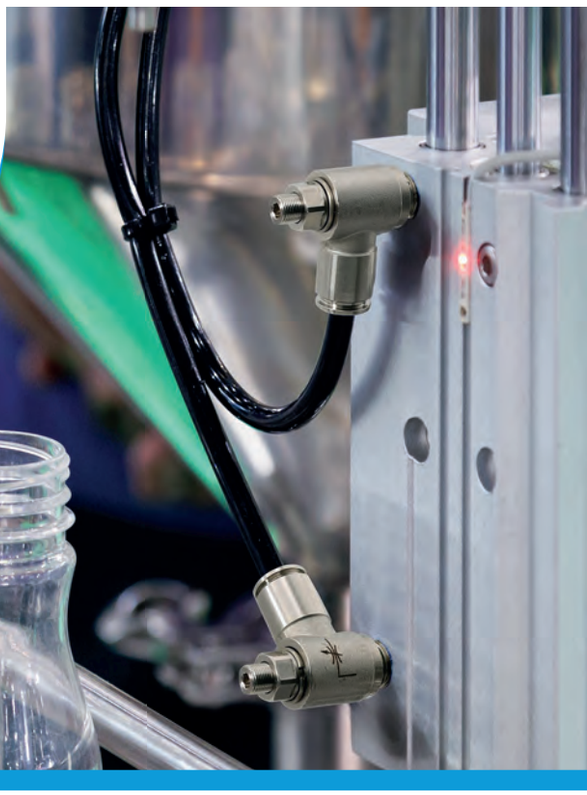
Associazione Svizzera per Sistemi di Qualità e di Management (SQS)
Bernstrasse 103, 3052 Zollikofen, Svizzera

IAF

IQNET

I nostri raccordi
About our fittings

Questo volume è un estratto del catalogo tecnico 2026 e comprende le serie di prodotti di Cmatic destinati alle applicazioni nei settori chimico-farmaceutico e Food&Beverage. Vengono presentati raccordi realizzati in materiali differenti così da rappresentare una gamma completa per diverse esigenze in ambito industriale, dalla produzione al filling fino al packaging, nonchè nel settore delle coffee machines e vending. In questo catalogo è dunque possibile individuare il raccordo ideale per le più svariate esigenze in termini di pressione di esercizio, temperature, tipologia di fluido, tipo di applicazione e compatibilità chimica. **Proprio per verificare la compatibilità dei materiali con i diversi agenti chimici, si rimanda alla tabella completa presente sul catalogo tecnico 2026 e sul sito www.cmatic.com**.



This release is an output of our 2026 technical catalogue. It features products intended for Chemical& Pharma, Food& Beverage applications fields, made of different materials to meet a variety of industrial requirements such as those needed for the filling and the packaging machines as well as coffee machines and vending systems.
This catalog will therefore be guiding you to select the most suitable fitting, based on the needed working conditions like working pressure, temperature, type of fluid as well as based on the application field and the chemical compatibility. **In this regards, to check the material compatibility with a selection of chemical agents, please refer to the complete table available in the 2026 technical catalog also available on the website www.cmatic.com.**

I nostri raccordi sono fatti in:
Our fittings are manufactuered in:

PPSU
Polyphenylsulfone

LOW LEAD BRASS
(< 0,1%)

STAINLESS STEEL
316L

BRASS, phosporous chemical nickel-plated. Certified NSF 51.

TUTTI conformi **FDA** e cerificati **NSF**
ALL FDA compliant and **NSF** certified

cmatic®
PNEUMATIC FITTINGS

MY LINE

IT

Raccordi automatici in PPSU

I raccordi della serie MY sono certificati NSF 169 per il contatto con acqua, tè e caffè. Sono inoltre conformi al Regolamento UE 1935/2004 (MOCA). Questi raccordi sono realizzati in PPSU (Polifenilsulfone), un polimero termoplastico ad alte prestazioni, noto per le sue eccellenti proprietà termiche, chimiche e meccaniche che lo rendono una scelta eccellente per le applicazioni nel settore alimentare e delle bevande, industriale e medico. In particolare, l'eccezionale resistenza chimica e alla corrosione del PPSU consente ai raccordi della serie MY di garantire massima durabilità, ottima coerenza delle prestazioni e completa assenza di rischi di contaminazione e reazioni chimiche indesiderate.

EN

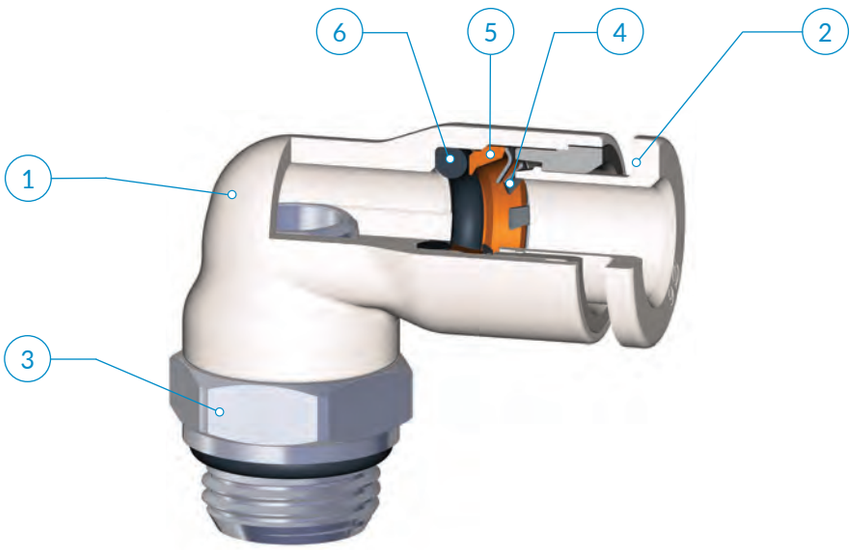
PPSU Push-in fittings

MY range of fittings is 169 NSF/ANSI certified for contact with water, tea and coffee. It is also compliant with EU 1935/2004 Regulation (MOCA). MY line of fittings is made of PPSU (Polyphenylsulfone), a high-performance thermoplastic polymer, well-known for its excellent thermal, chemical and mechanical properties that make it an excellent choice for Food and Beverage, industrial and medical applications. Especially the exceptional chemical and corrosion resistance of PPSU enables the MY line to ensure maximum durability, optimal performance consistency, complete absence of contamination and unwanted chemical reactions risks.

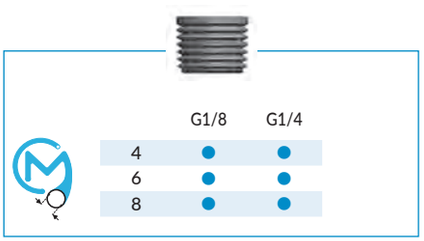
MY Line

Raccordi automatici in PPSU — PPSU Push-in fittings

0°÷140°C | 20 bar @ 20°C | -99 KPa



1	Corpo Body	PPSU PPSU
2	Anello di Ritegno Holding Ring	PPSU PPSU
3	Filetto Thread	Acciaio inox AISI 316L Stainless steel AISI 316L
4	Pinza aggraffaggio Gripping ring	Acciaio inox AISI 301 Stainless steel AISI 301
5	Anello portapinza Protection Ring	PEI PEI
6	Guarnizioni Seals	FPM conforme FDA FPM, FDA compliant



	G1/8	G1/4
4	●	●
6	●	●
8	●	●

Tubi di collegamento consigliati:
Tubi termoplastici per applicazioni Food&Beverage

Tolleranze accettabili sui tubi:
+/– 0,07 mm fino a Ø 8 mm

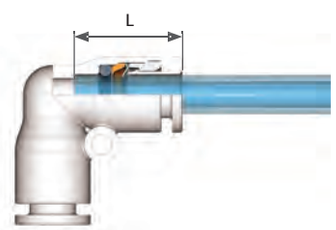
Campi di applicazione:
Food&Beverage, acqua calda, caffè, vapore

Recommended tubings:
Tubing recommended for Food and Beverage

Acceptable Tolerances on the tubings:
+/– 0,07 mm up to Ø 8 mm.

Application fields:
Food&Beverage, Hot water, Coffee, Steam

Profondità di inserimento del tubo



Tubing insertion depth

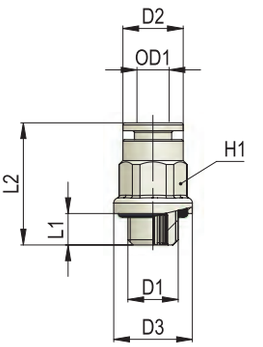
OD	L
4	13,4
6	16,3
8	16,5

MY 12

Diritto maschio cilindrico

Parallel straight, male

Type	OD1	D1	D2	D3	L1	L2	H1	g
12 04 18	4	G1/8	9,5	15	6	20	10	1,9
12 06 18	6	G1/8	11,5	15	6	23	12	2,4
12 06 14	6	G1/4	11,5	18	7	21	12	-

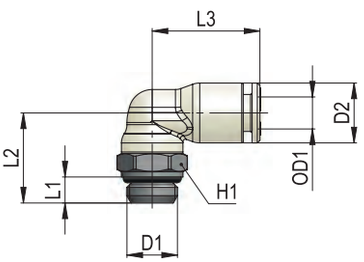


MY 16

Gomito maschio cilindrico girevole

Parallel swivelling elbow fitting, male

Type	OD1	D1	D2	L1	L2	L3	H1	g
16 04 18 -X	4	G1/8	9,5	5	15	16	12	5,8
16 04 14 -X	4	G1/4	9,5	6,5	17	16	15	9,6
16 06 18 -X	6	G1/8	11,5	5	17,3	20,5	12	7,8
16 06 14 -X	6	G1/4	11,5	6,5	19,3	20,5	15	10,4
16 08 18 -X	8	G1/8	14	5	18	21,5	12	-
16 08 14 -X	8	G1/4	14	6,5	20	21,5	15	-

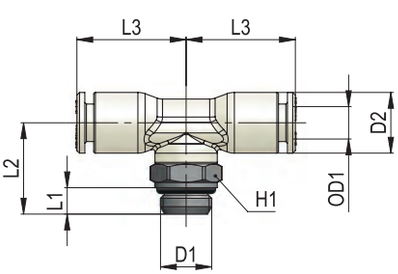


MY 21

T centrale maschio cilindrico girevole

Swivelling T fitting, parallel

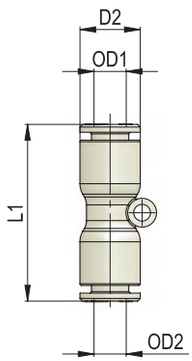
Type	OD1	D1	D2	L1	L2	L3	H1	g
21 04 18 -X	4	G1/8	9,5	5	15	16	12	6,8
21 04 14 -X	4	G1/4	9,5	6,5	17	16	15	10,4
21 06 18 -X	6	G1/8	11,5	5	17,3	20,5	12	8,9
21 06 14 -X	6	G1/4	11,5	6,5	19,3	20,5	15	12,9



MY 26

Giunzione intermedia

Union

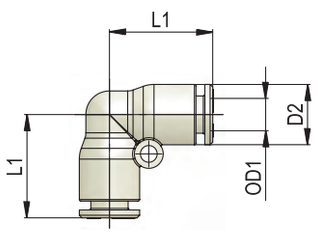


Type	OD1	OD2	D2	L1	g
26 04 04	4	4	9,5	27,5	1,7
26 06 04	6	4	11,5	30,6	-
26 06 06	6	6	11,5	33,7	2,7
26 08 08	8	8	14	34,3	-

MY 28

Gomito intermedio

Union elbow

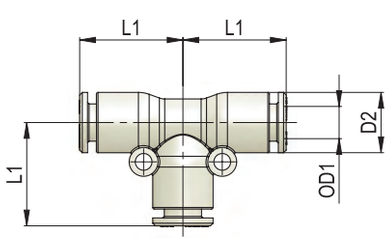


Type	OD1	D2	L1	g
28 04 04	4	9,5	15,5	1,8
28 06 06	6	11,5	19,5	3,0
28 08 08	8	14	21	-

MY 29

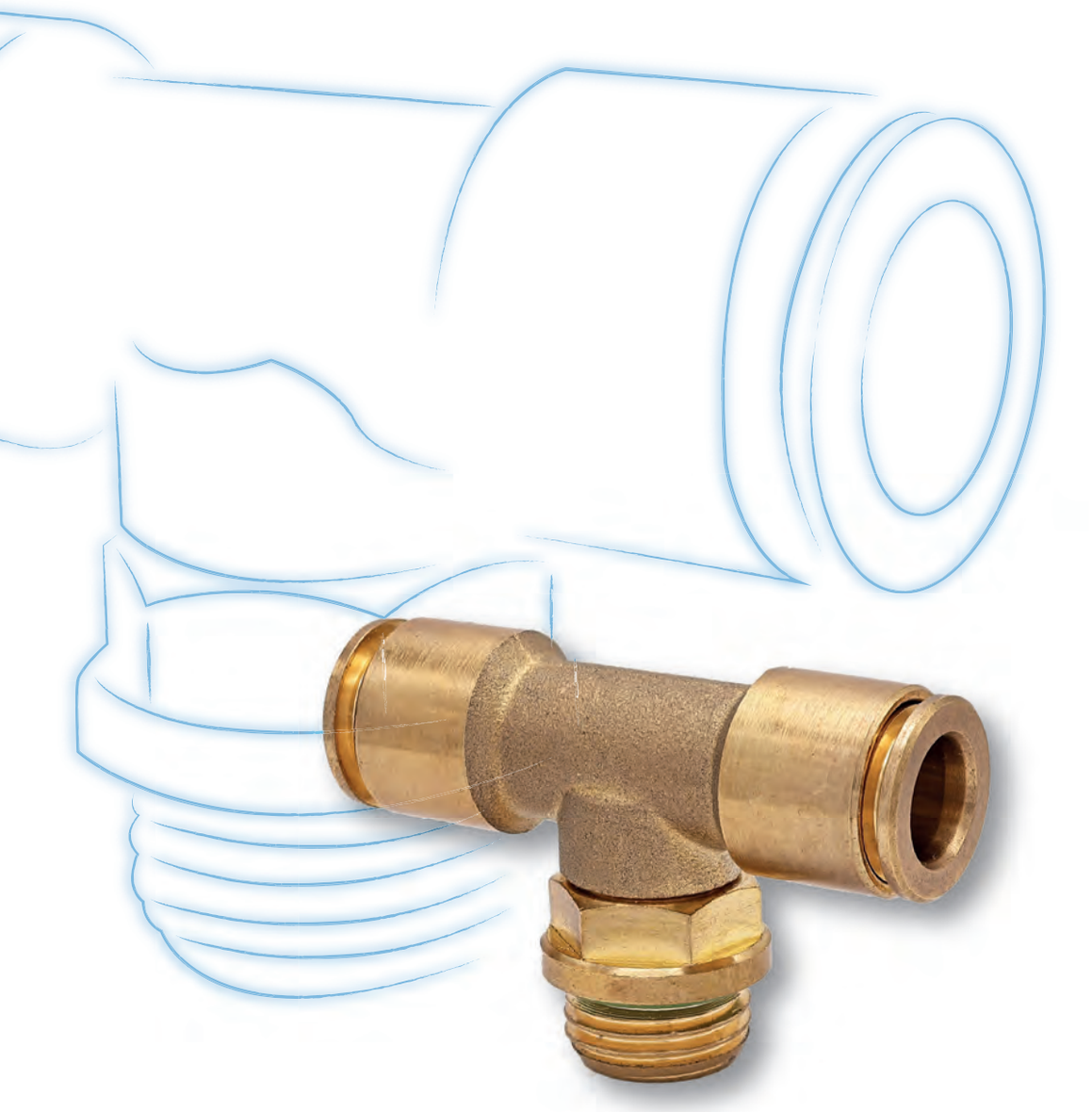
T intermedio

Union T



Type	OD1	D2	L1	g
29 04 04	4	9,5	15,5	2,7
29 06 06	6	11,5	19,5	4,4
29 08 08	8	14	21	-

cmatic®
PNEUMATIC FITTINGS



MF LINE

IT

Raccordi Automatici per Applicazioni Food and Beverage

MF è il Raccordo Automatico in ottone a basso contenuto di piombo (Pb <0,1%) studiato e certificato per applicazioni Food and Beverage. Tutti i raccordi della serie MF sono certificati NSF/ANSI 169 per il contatto con acqua, tè e caffè e sono pertanto la soluzione ottimale per le macchine del caffè e del vending.
La serie MF è conforme allo standard NSF/ANSI 372 che garantisce l'osservanza dei tenori di piombo massimi ammessi per il contatto con acqua potabile (U.S. Safe Drinking Water Act). Grazie al ridottissimo contenuto di piombo (Pb <0,1%), questa SERIEa di raccordi è anche pienamente rispondente alla Direttiva ROHS III.

EN

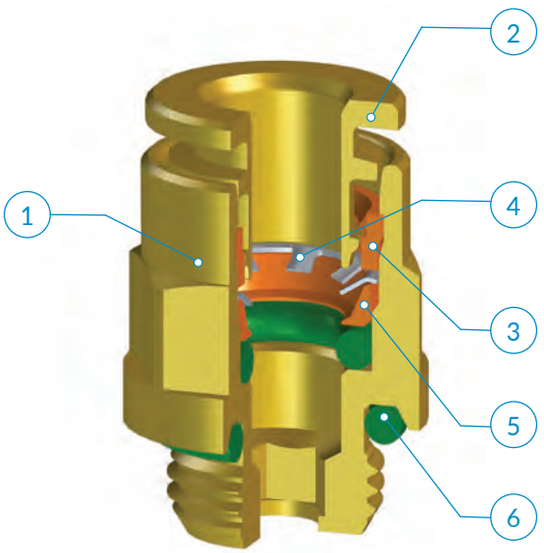
Push-in Fittings for Food and Beverage Applications

MF is a push-to-connect fitting designed for food and beverage applications. The MF fittings are made of low lead brass (Pb<0,1%) and they are certified NSF/AINSI 169 for contact with water, tea and coffee. This makes the MF line the right solution for the coffee and vending machines industry. The MF fitting also boasts the NSF/ANSI 372 compliance to brass maximum allowed lead content standards (Pb<0,1%) for use in contact with drinking water (U.S. Safe Drinking Water Act). MF fittings are meeting the ROHS III Directive.

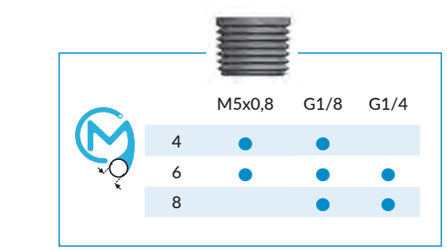
MF Line

Raccordi Automatici per Applicazioni Food and Beverage Push-in Fittings for Food and Beverage Applications

-20° ÷ 150°C | 20 bar | -99 KPa | "RoHS III" full compliance



1	Corpo Body	Ottone UNI EN 12164 CW510L conforme NSF/ANSI 372 Brass UNI EN12164 CW510L, NSF/ANSI 372 complpiant
2	Anello estrattore Release ring	Ottone UNI EN 12164 CW510L conforme NSF/ANSI 372 Brass UNI EN12164 CW510L, NSF/ANSI 372 complpiant
3	Anello di ritegno Holding ring	Resina (PEI) Resin (PEI)
4	Pinza aggraffaggio Gripping ring	Acciaio inox AISI 301 Stainless steel AISI 301
5	Anello portapinza Protection ring	Resina (PEI) Resin (PEI)
6	Guarnizioni Seals	FPM conforme FDA FPM, FDA compliant



Per applicazioni che prevedono l'uso di vapore, rivolgersi al nostro personale tecnoco-commerciale
For steam applications, please contact our sales engineering team.

Tubi di collegamento consigliati:
Tubi termoplastici per applicazioni Food&Beverage

Tolleranze accettabili sui tubi:
+/– 0,07 mm fino a Ø 8 mm

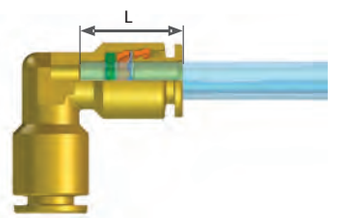
Campi di applicazione:
Food&Beverage

Recommended tubings:
Tubing recommended for Food and Beverage

Acceptable Tolerances on the tubings:
+/– 0,07 mm up to Ø 8 mm.

Application fields:
Food&Beverage

Profondità di inserimento del tubo



Tubing insertion depth

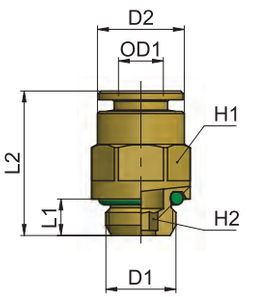
OD	L
4	12,8
6	14,3
8	14,3

MF 12

Diritto maschio cilindrico

Parallel straight, male

Type	OD1	D1	D2	L1	L2	H1	H2	g
12 04 M5	4	M5x0,8	9	4	19	-	2,5	43,5
12 04 18	4	G1/8	9	5	16,5	9	3	6,2
12 06 M5	6	M5x0,8	12	4	22,2	-	2,5	8,8
12 06 18	6	G1/8	11,9	5	19,5	12	4	9,0
12 06 14	6	G1/4	11,9	6,5	19,5	12	4	12,1
12 08 18	8	G1/8	13,9	5	23,5	13	6	8,1
12 08 14	8	G1/4	13,9	6,5	21,5	14	6	9,1

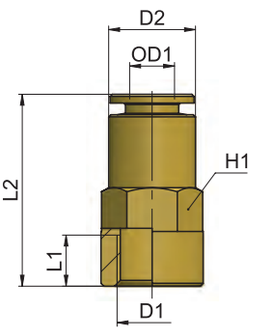


MF 13

Diritto femmina

Female straight

Type	OD1	D1	D2	L1	L2	H1	g
13 04 18	4	G1/8	9	7	23,5	9	10,4
13 06 18	6	G1/8	11,9	7	26	12	15,1
13 06 14	6	G1/4	11,9	10	30	12	17,8
13 08 14	8	G1/4	13,9	10	30	14	15,5

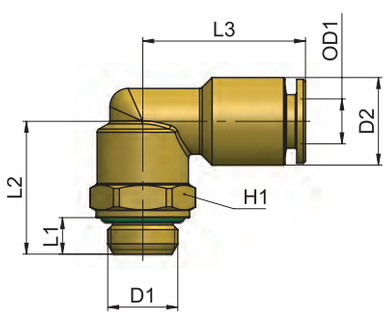


MF 16

Gomito maschio cilindrico girevole

Parallel swivelling elbow fitting, male

Type	OD1	D1	D2	L1	L2	L3	H1	g
16 04 M5	4	M5x0,8	9,1	4	14	17,5	9	9,0
16 04 18	4	G1/8	9,1	5	18,2	19,5	13	16,4
16 06 M5	6	M5x0,8	12	4	14	20,5	9	12,1
16 06 18	6	G1/8	12	5	18,2	22	13	18,8
16 06 14	6	G1/4	12	6,5	21,7	22	13	22,3
16 08 18	8	G1/8	14	5	18	22,5	13	16,5
16 08 14	8	G1/4	14	6,5	21,5	22,5	13	25,8

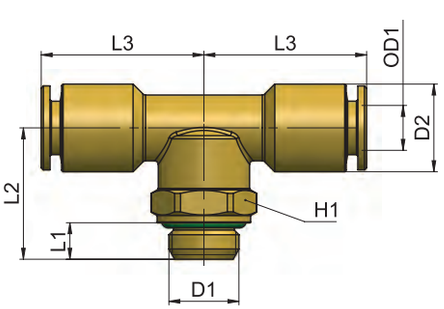


MF 21

T centrale maschio cilindrico girevole

Swivelling T fitting, parallel

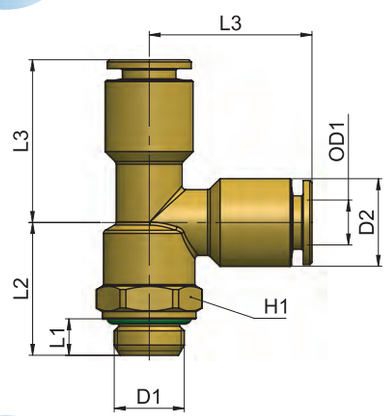
Type	OD1	D1	D2	L1	L2	L3	H1	g
21 04 18	4	G1/8	9,1	5	18,2	19,5	13	20,5
21 06 18	6	G1/8	12	5	18	22	13	25,4
21 06 14	6	G1/4	12	6,5	21,5	22	13	28,9
21 08 18	8	G1/8	14	5	18	22,5	13	30,4
21 08 14	8	G1/4	14	6,5	21,5	22,5	13	33,7



MF 24

T laterale maschio cilindrico girevole

Lateral run T fitting, parallel

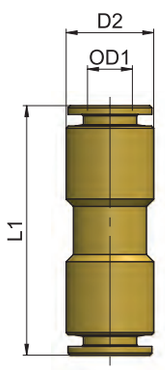


Type	OD1	D1	D2	L1	L2	L3	H1	g
24 04 18	4	G1/8	9,1	5	18,2	19,5	13	21,4
24 06 18	6	G1/8	12	5	18,2	22	13	26,3
24 06 14	6	G1/4	12	6,5	21,7	22	13	29,8
24 08 18	8	G1/8	14	5	18	22,5	13	-
24 08 14	8	G1/4	14	6,5	21,5	22,5	13	20,0

MF 26

Giunzione intermedia

Union

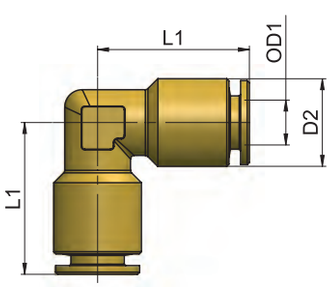


Type	OD1	D2	L1	g
26 04 04	4	9	28	6,9
26 06 06	6	12	33,6	14,6
26 08 08	8	14	34	-

MF 28

Gomito intermedio

Union elbow

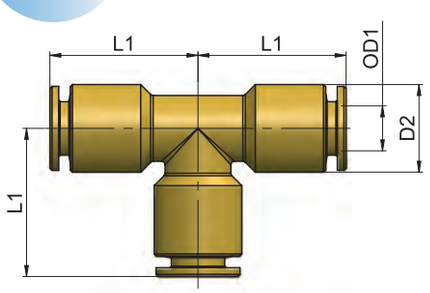


Type	OD1	D2	L1	g
28 04 04	4	9	17,5	88,2
28 06 06	6	12	20,5	16,6
28 08 08	8	14	22,5	10,0

MF 29

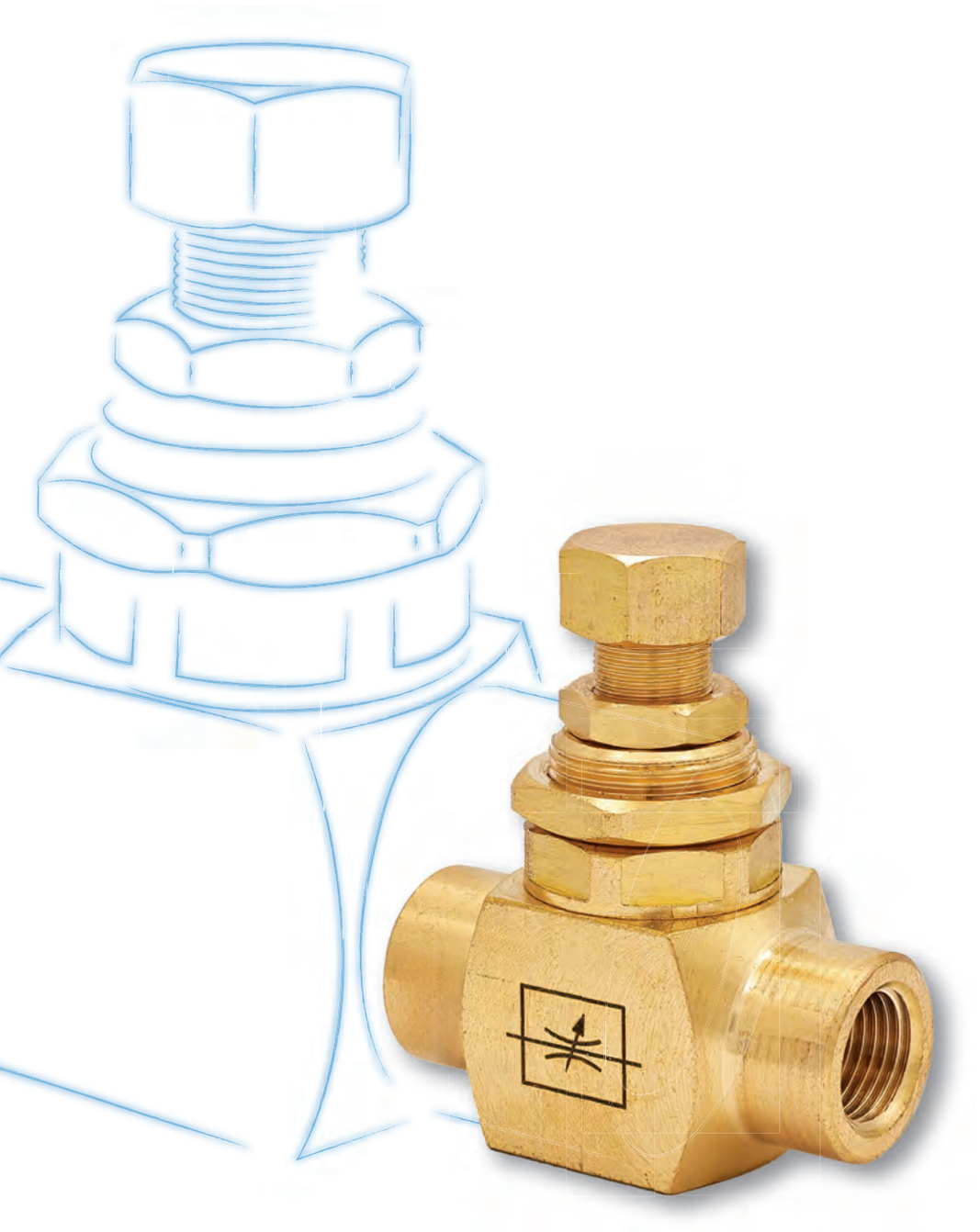
T intermedio

Union T



Type	OD1	D2	L1	g
29 04 04	4	9	17,5	12,5
29 06 06	6	12	20	22,2
29 08 08	8	14	21	28,1

cmatic®
PNEUMATIC FITTINGS



VF LINE

IT

Raccordi a funzione per Applicazioni Food and Beverage

VF è il Raccordo a funzione in ottone a basso contenuto di piombo (Pb <0,1%) studiato e certificato per applicazioni Food and Beverage. Tutti i raccordi della serie VF sono certificati NSF/ANSI 169 per il contatto con acqua, tè e caffè e sono pertanto la soluzione ottimale per le macchine del caffè e del vending.
La serie VF è conforme allo standard NSF/ ANSI 372 che garantisce l'osservanza dei tenori di piombo massimi ammessi per il contatto con acqua potabile (U.S. Safe Drinking Water Act). Grazie al ridottissimo contenuto di piombo (Pb <0,1%), questa SERIE di raccordi è anche pienamente rispondente alla Direttiva ROHS III

EN

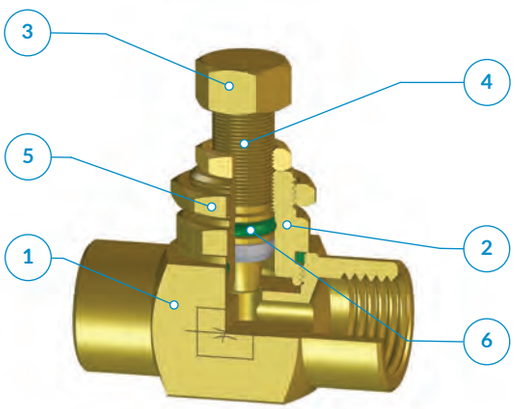
Function Fittings for Food and Beverage Applications

VF is a function fitting designed for food and beverage applications. The VF fittings are made of low lead brass (Pb<0,1%) and they are certified NSF/AINSI 169 for contact with water, tea and coffee. This makes the VF line the right solution for the coffee and vending machines industry. The VF fitting also boasts the NSF/ANSI 372 compliance to brass maximum allowed lead content standards (Pb<0,1%) for use in contact with drinking water (U.S. Safe Drinking Water Act). VF fittings are meeting the ROHS III Directive.

VF 21

Regolatore di flusso in linea In-line flow control

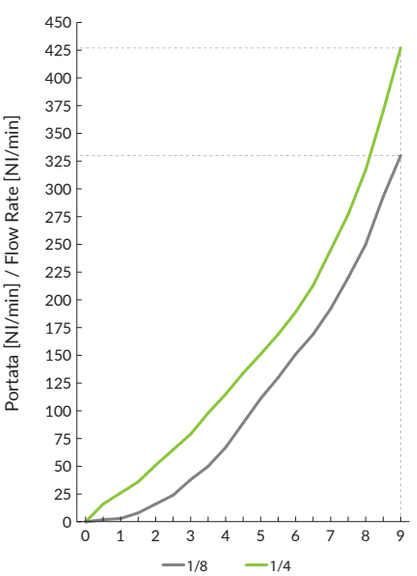
-20° ÷ 150°C 10 bar



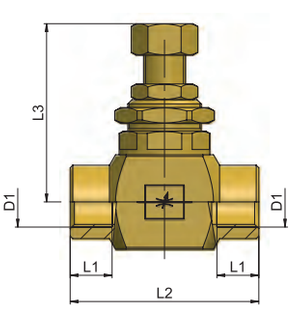
1	Corpo Body	Ottone UNI EN 12164 CW510L Brass UNI EN12164 CW510L
2	Regolatore Needle valve	Ottone UNI EN 12164 CW510L Brass UNI EN12164 CW510L
3	Pomolo Handwheel	Ottone UNI EN 12164 CW510L Brass UNI EN12164 CW510L
4	Spillo Needle	Ottone UNI EN 12164 CW510L Brass UNI EN12164 CW510L
5	Dado Nut	Ottone UNI EN 12164 CW510L Brass UNI EN12164 CW510L
6	Guarnizioni Seals	FPM conforme FDA FPM, FDA compliant

Per applicazioni che prevedono l'uso di vapore, rivolgersi al nostro personale tecnoco-commerciale
For steam applications, please contact our sales engineering team.

P = 6 bar - Δp = 1bar



N° giri spillo di regolazione/ N°of needle turns



Type	D1	L1	L2	L3 max	g
21 18 18	G1/8	8	36	34	79,1
21 14 14	G1/4	9	41	34	86,5

.../U =

Tubi di collegamento consigliati:
Tubi termoplastici per applicazioni Food&Beverage

Recommended tubings:
Tubing recommended for Food and Beverage

Tolleranze accettabili sui tubi:
+/– 0,07 mm fino a Ø 8 mm

Acceptable Tolerances on the tubings:
+/– 0,07 mm up to Ø 8 mm.

Campi di applicazione:
Food&Beverage

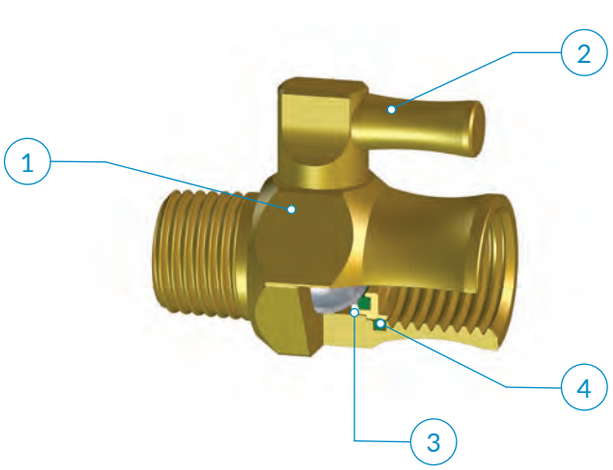
Application fields:
Food&Beverage

VF 25

Valvola manuale 2 vie — 2 way manual valve

-20° ÷ 150°C

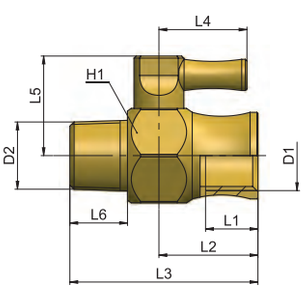
2 ÷ 10 bar



1	Corpo Body	Ottone UNI EN 12164 CW510L Brass UNI EN12164 CW510L
2	Leva Handle	Ottone UNI EN 12164 CW510L Brass UNI EN12164 CW510L
3	Rondella Gasket	PTFE PTFE
4	Guarnizioni Seals	FPM conforme FDA FPM, FDA compliant

1/8	6 mm
1/4	6 mm
3/8	8 mm
1/2	10 mm

Type	D1	D2	L1	L2	L3	L4	L5	L6	H1	g
25 00 18	G1/8	R1/8	8	19	32,8	17	19	7,5	18	45,3
25 00 14	G1/4	R1/4	9	19	35,9	17	19	11	18	43,6



Tubi di collegamento consigliati:
Tubi termoplastici per applicazioni Food&Beverage

Recommended tubings:
Tubing recommended for Food and Beverage

Tolleranze accettabili sui tubi:
+/– 0,07 mm fino a Ø 8 mm

Acceptable Tolerances on the tubings:
+/– 0,07 mm up to Ø 8 mm.

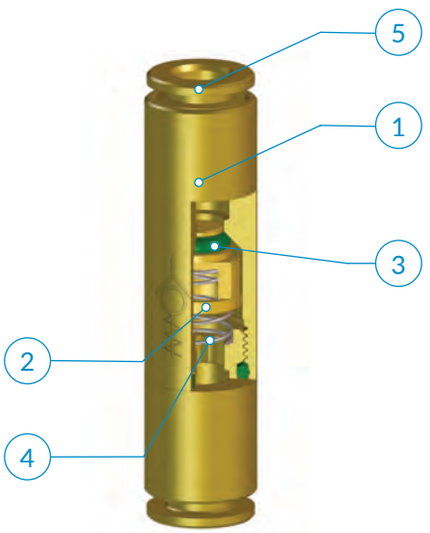
Campi di applicazione:
Food&Beverage

Application fields:
Food&Beverage

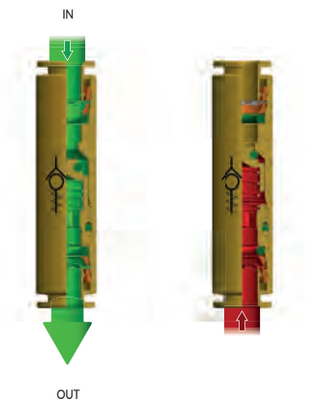
VF 33T

Valvola di non ritorno Check valve

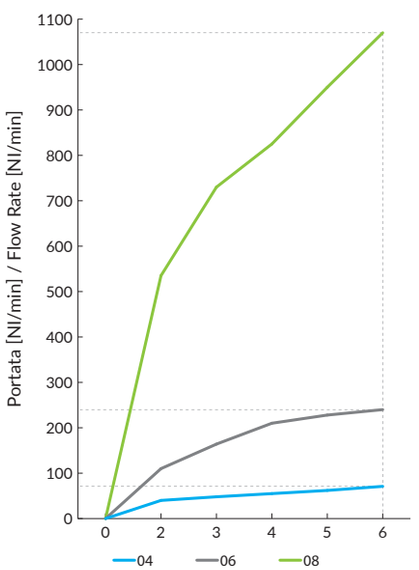
-20° ÷ 150°C 2÷10 bar 0,2 bar



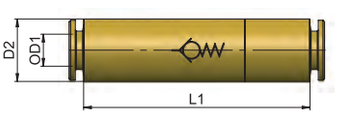
1	Corpo Body	Ottone UNI EN 12164 CW510L Brass UNI EN12164 CW510L
2	Otturatore Valve	Ottone UNI EN 12164 CW510L Brass UNI EN12164 CW510L
3	Guarnizioni Seals	FPM conforme FDA FPM compliant with FDA
4	Molla Spring	Acciaio inox AISI 302 Stainless steel AISI 302
5	Raccordo automatico serie MF MF line push-in fitting	



P = 6 bar - Δp = 1bar



Pressione [Bar] / Pressure [Bar]



Type	OD1	D2	L1	g
33 04 04 T	4	9	40,9	11,8
33 06 06 T	6	12	48,5	25,2
33 08 08 T	8	14	48,9	20,8

Queste valvole permettono il passaggio dell'aria in un unico senso (indicato sul corpo della valvola da una freccia) impedendolo in senso contrario.

The flow is allowed only in one way (the arrow direction engraved on the body) and stopped in the reverse way.

Tubi di collegamento consigliati:
Tubi termoplastici per applicazioni Food&Beverage

Recommended tubings:
Tubing recommended for Food and Beverage

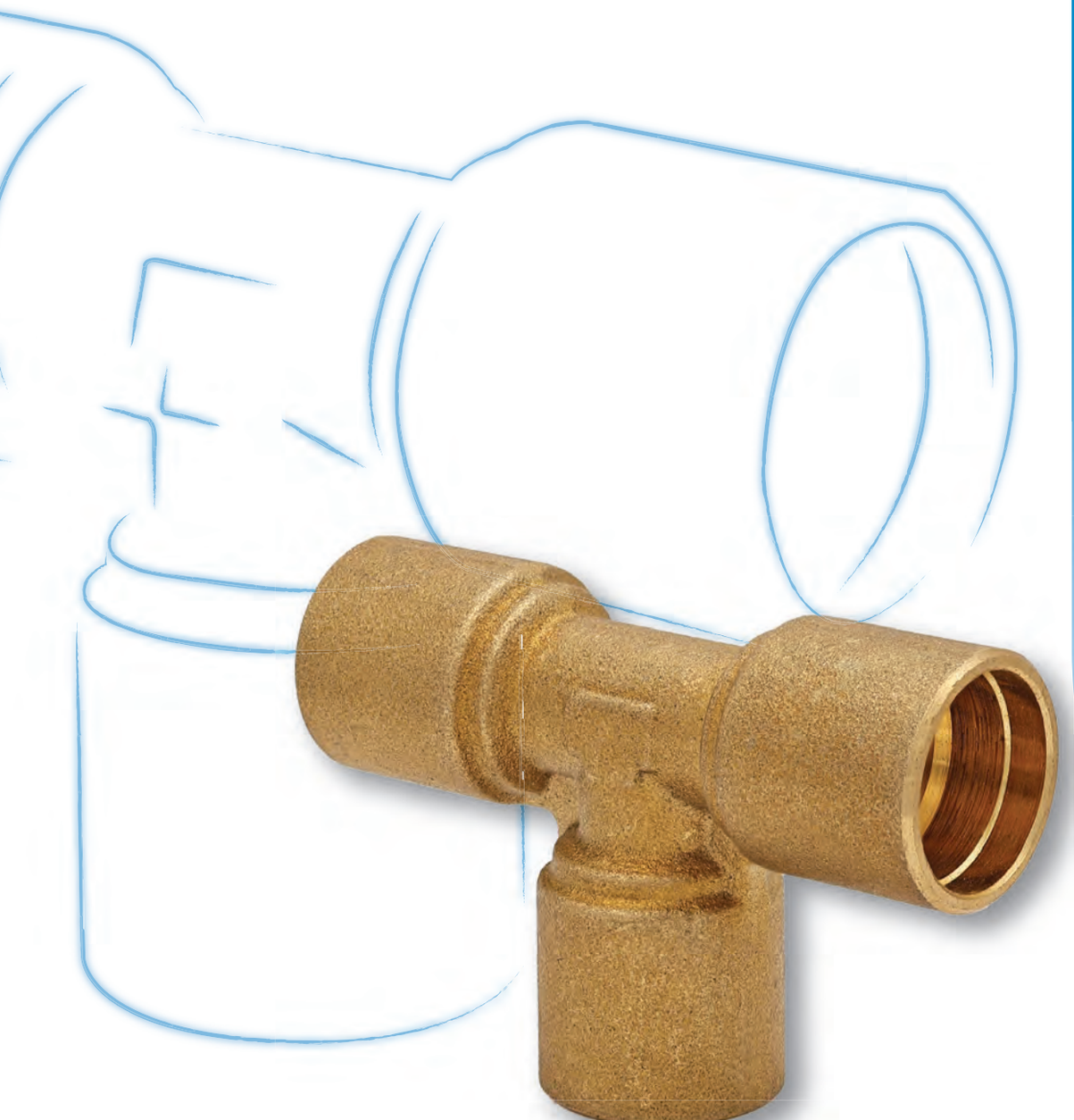
Tolleranze accettabili sui tubi:
+/– 0,07 mm fino a Ø 8 mm

Acceptable Tolerances on the tubings:
+/– 0,07 mm up to Ø 8 mm.

Campi di applicazione:
Food&Beverage

Application fields:
Food&Beverage

cmatic®
PNEUMATIC FITTINGS



RF LINE

IT

Raccordi Standard per Applicazioni Food and Beverage

RF è la serie di raccordi standard in ottone a basso contenuto di piombo (Pb <0,1%) certificata per applicazioni Food&Beverage. Tutti i raccordi della serie RF sono certificati NSF/ANSI 169 per il contatto con acqua, tè e caffè e sono pertanto la soluzione ottimale per le macchine del caffè e del vending. La serie RF è inoltre conforme allo standard NSF/ANSI 372 che garantisce l'osservanza dei tenori di piombo massimi ammessi per il contatto con acqua potabile (U.S. Safe Drinking Water Act). Grazie al ridottissimo contenuto di piombo (Pb <0,1%), questa SERIE di raccordi è anche pienamente rispondente alla Direttiva ROHS III.

EN

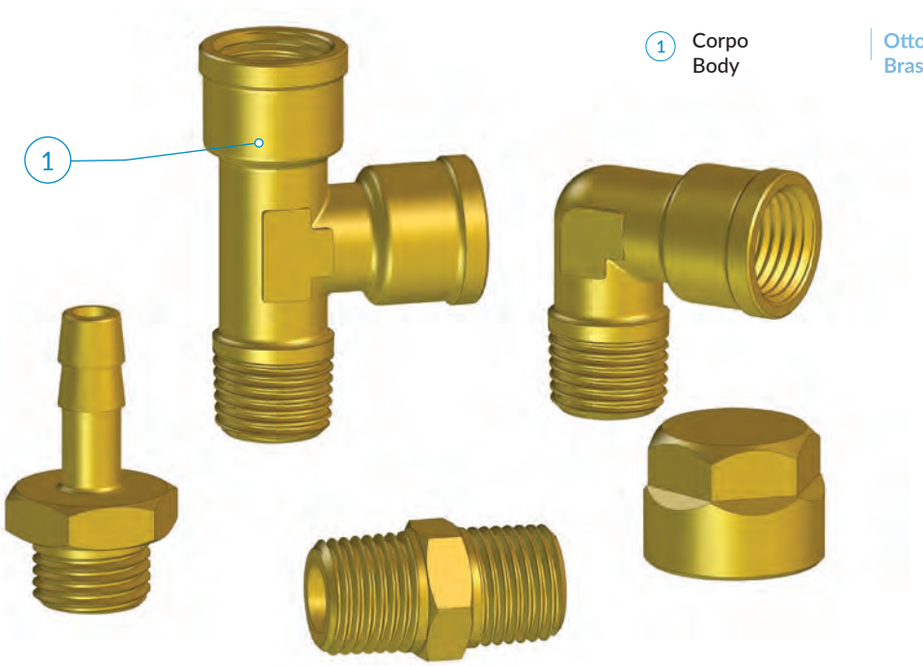
Standard Fittings for Food and Beverage Applications

The RF fittings are accessories made of low lead brass (Pb <0,1%) and they are NSF/AINSI169 certified for contact with water, tea and coffee. This makes the RF line The Right Solution for the coffee and vending machines industry. The RF fitting also boasts the NSF/ANSI 372 brass compliance with the maximum lead content standards (Pb<0,1%) allowed for contact with drinking water (U.S. Safe Drinking Water Act). RF fittings are meeting the ROHS III Directive.

RF Line

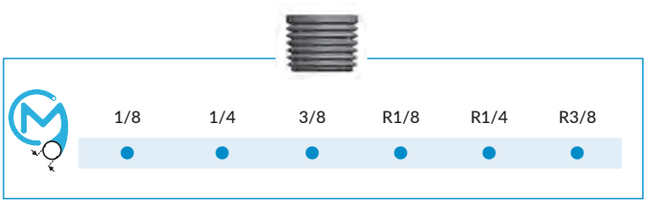
Raccordi Automatici per Applicazioni Food and Beverage Push-in Fittings for Food and Beverage Applications

-40° ÷ 150°C 60 bar



1 Corpo
Body

Ottone EN 12164 CW510L conforme NSF/ANSI 372
Brass EN12164 CW510L compliant NSF/ANSI 372



Campi di applicazione:
Applicazioni nel settore Food and Beverage

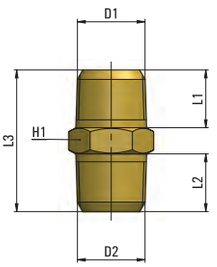
Application fields:
Food and Beverage Applications

RF 12

Nipplo conico

Nipple, taper

Type	D1	D2	L1	L2	L3	H1	g
12 18 18	R1/8	R1/8	7,5	7,5	19,5	12	8,2
12 18 14	R1/8	R1/4	7,5	11	23,5	14	14,1
12 14 14	R1/4	R1/4	11	11	27	14	17,3
12 14 38	R1/4	R3/8	11	11,5	27,5	17	21,1
12 38 38	R3/8	R3/8	11,5	11,5	28	17	23,3

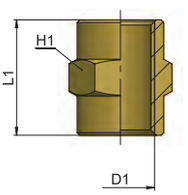


RF 13

Manicotto

Joint piece

Type	D1	L1	H1	g
13 00 18	G1/8	15	14	10,4
13 00 14	G1/4	22	17	18,8
13 00 38	G3/8	23	20	21,4

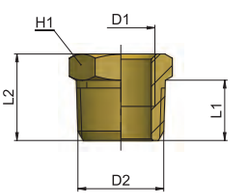


RF 14

Riduzione F-M conica

Taper female-male reducing connector

Type	D1	D2	L1	L2	H1	g
14 18 14	G1/8	R1/4	11	16	14	10,5
14 18 38	G1/8	R3/8	11,5	16,5	17	20,0
14 14 38	G1/4	R3/8	11,5	16,5	17	12,8

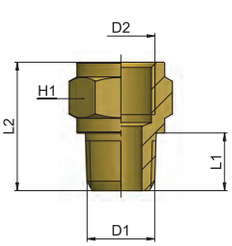


RF 16

Prolunga M-F conica

Adaptor male-female, taper

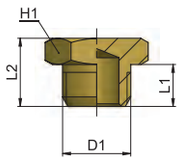
Type	D1	D2	L1	L2	H1	g
16 18 18	R1/8	G1/8	7,5	17,5	12	10,7
16 18 14	R1/8	G1/4	7,5	21	17	16,9
16 14 14	R1/4	G1/4	11	24,5	17	20,4
16 14 38	R1/4	G3/8	11	25,5	20	23,9
16 38 38	R3/8	G3/8	11,5	26	20	28,2



RF 19

Tappo cilindrico

Parallel plug

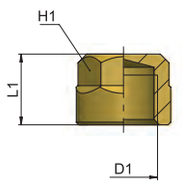


Type	D1	L1	L2	H1	g
19 00 18	**G1/8**	6	10	14	7,3
19 00 14	**G1/4**	8	13	17	13,3
19 00 38	**G3/8**	9	14	20	19,8

RF 20

Tappo femmina

Female plug

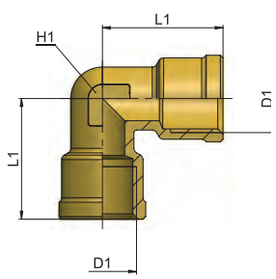


Type	D1	L1	H1	g
20 00 18	**G1/8**	10	14	6,5
20 00 14	**G1/4**	13,5	15	19,8
20 00 38	**G3/8**	14	19	17,6

RF 21

Gomito F-F

Female elbow

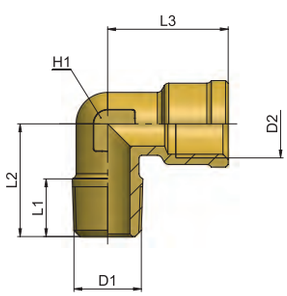


Type	D1	L1	H1	g
21 18 18	**G1/8**	18,5	10	14,7
21 14 14	**G1/4**	22,5	12	24,9
21 38 38	**G3/8**	25,5	15	42,3

RF 22

Gomito M-F

Male-female elbow



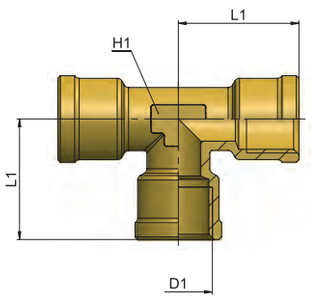
Type	D1	D2	L1	L2	L3	H1	g
22 18 18	**R1/8**	**G1/8**	8,2	17	18,5	10	12,3
22 14 14	**R1/4**	**G1/4**	11	21,5	22,5	12	22,6
22 38 38	**R3/8**	**G3/8**	12	24,5	25,5	15	39,4

RF 23

T F-F-F

Female T

Type	D1	L1	H1	g
23 18 18	**G1/8**	18,5	10	21,0
23 14 14	**G1/4**	22,5	12	35,5
23 38 38	**G3/8**	25,5	15	59,8

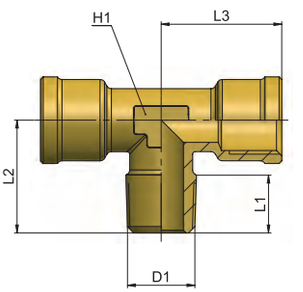


RF 24

T F-M-F

Female-male-female T

Type	D1	D2	L1	L2	L3	H1	g
24 18 18	**R1/8**	**G1/8**	8,2	17	18,5	10	18,9
24 14 14	**R1/4**	**G1/4**	11	21,5	22,5	12	33,1
24 38 38	**R3/8**	**G3/8**	12	24,5	25,5	15	57,2

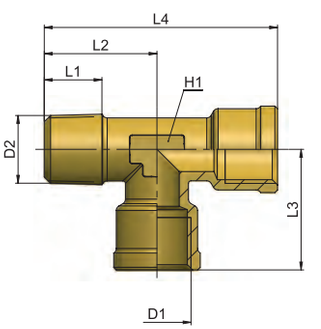


RF 25

T M-F-F

Male-female- female T

Type	D1	D2	L1	L2	L3	L4	H1	g
25 18 18	**G1/8**	**R1/8**	8,2	17	18,5	35,5	10	18,8
25 14 14	**G1/4**	**R1/4**	11	21,5	22,5	44	12	32,9
25 38 38	**G3/8**	**R3/8**	12	24,5	25,5	50	15	57,3

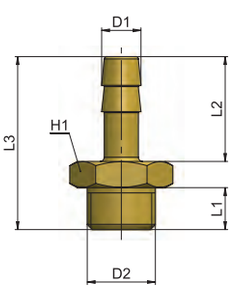


RF 30

Portagomma

Hose connector

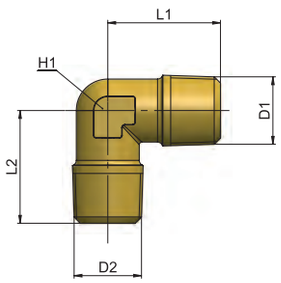
Type	OD1	D1	D2	L1	L2	L3	H1	g
30 6,5 18	**6**	**6,5**	**G1/8**	6	20	30	14	9,7
30 6,5 14	**6**	**6,5**	**G1/4**	8	20	33	17	15,8



RF 35

Gomito M-M

Male-male elbow

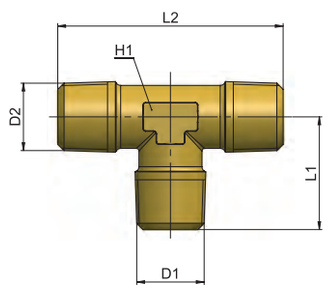


Type	D1	D2	L1	L2	H1	g
35 18 18	**R1/8**	**R1/8**	17	17	10	10,3
35 18 14	**R1/8**	**R1/4**	19	21,5	12	19,6
35 14 14	**R1/4**	**R1/4**	21,5	21,5	12	20,6
35 14 38	**R1/4**	**R3/8**	23	24,5	15	34,0
35 38 38	**R3/8**	**R3/8**	24,5	24,5	15	36,0

RF 36

T M-M-M

Male T

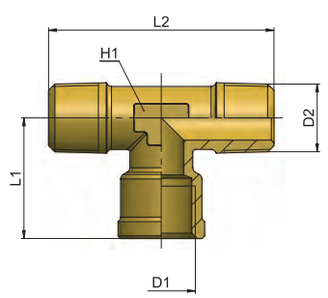


Type	D1	D2	L1	L2	H1	g
36 18 18	**R1/8**	**R1/8**	17	34	10	14,4
36 14 14	**R1/4**	**R1/4**	21,5	43	12	28,5
36 38 38	**R3/8**	**R3/8**	24,5	49	15	50,2

RF 45

T M-F-M

Male-female-male T

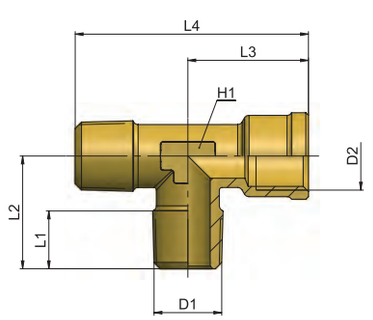


Type	D1	D2	L1	L2	H1	g
45 18 18	**G1/8**	**R1/8**	18,5	34	10	16,7
45 14 14	**G1/4**	**R1/4**	22,5	43	12	30,8
45 38 38	**G3/8**	**R3/8**	25,5	49	15	53,3

RF 47

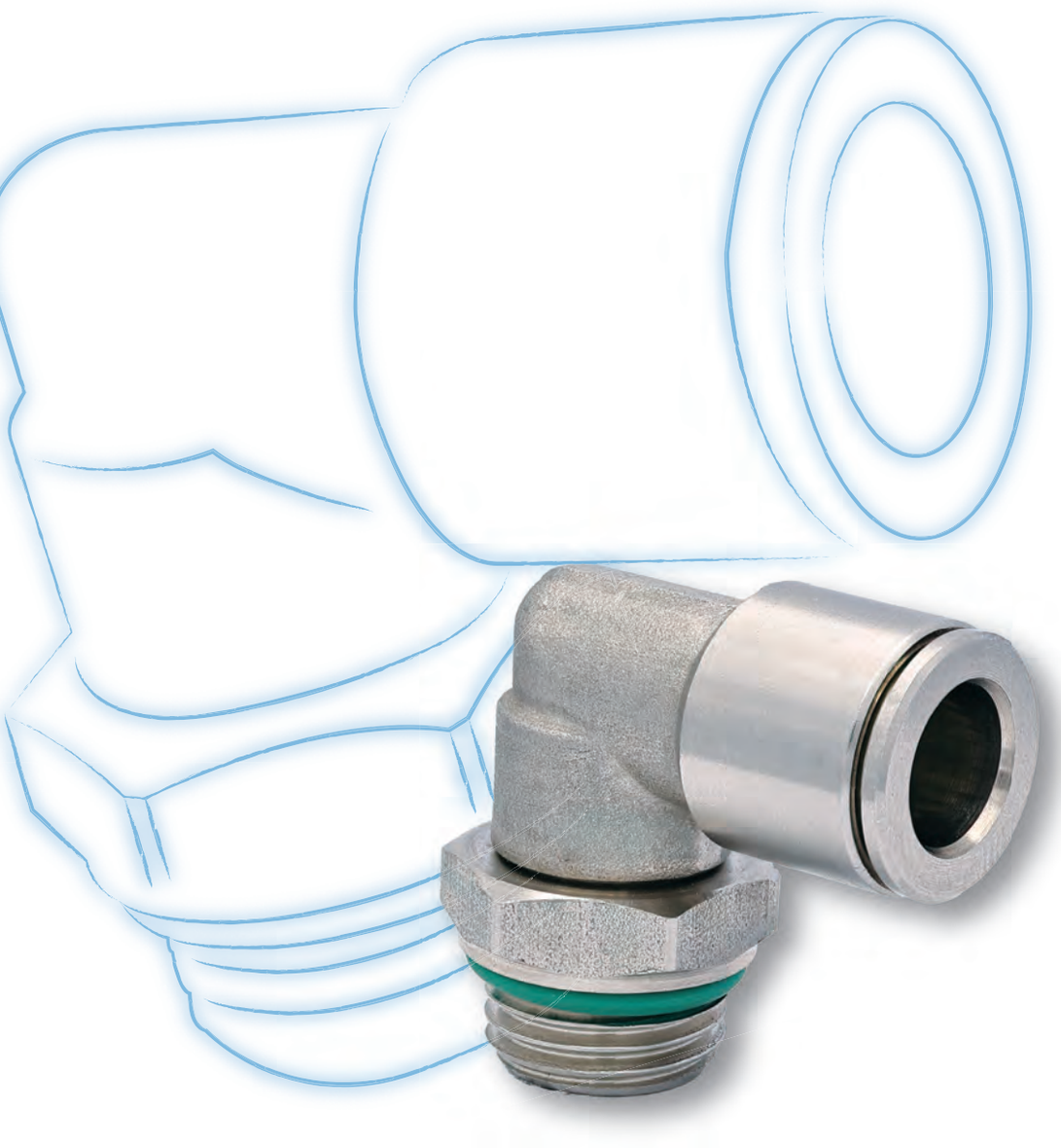
T M-M-F

Male-male-female T



Type	D1	D2	L1	L2	L3	L4	H1	g
47 18 18	**R1/8**	**G1/8**	8,2	17	18,5	35,5	10	16,6
47 14 14	**R1/4**	**G1/4**	11	21,5	22,5	44	12	30,5
47 38 38	**R3/8**	**G3/8**	12	24,5	25,5	50	15	53,4

cmatic®
PNEUMATIC FITTINGS



MX LINE

IT

Raccordi Automatici in Acciaio Inox 316L

I raccordi automatici della Serie MX sono realizzati interamente in acciaio INOX 316L (1.4404): per questo motivo, permettono di realizzare connessioni in ambienti e condizioni di impiego altamente corrosivi e con temperature elevate.

EN

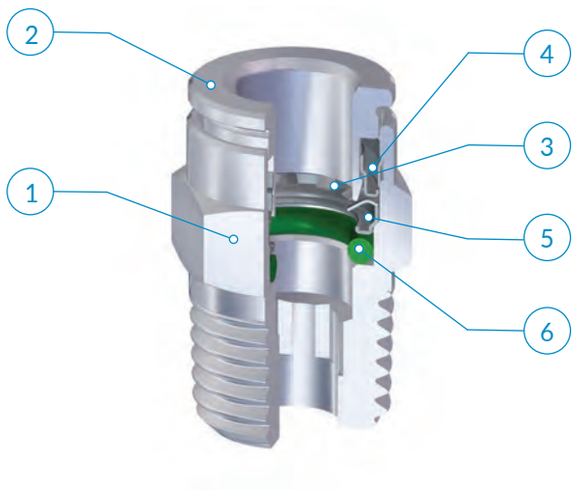
316L Stainless Steel Push-in Fittings

The push-in fittings of the MX line are entirely made of AISI 316L (1,4404) and they are the perfect solution for highly aggressive environments and high temperature rated applications.

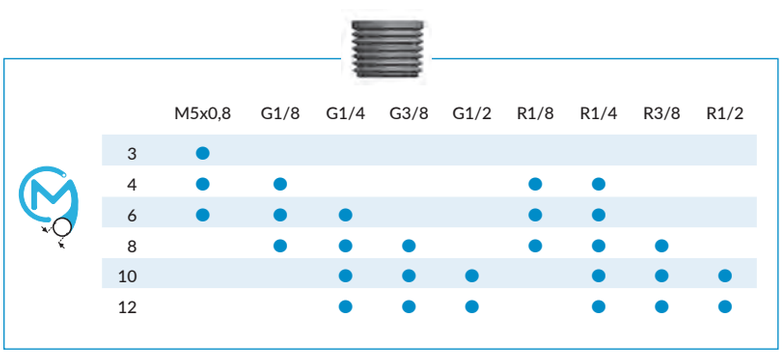
MX Line

Raccordi Automatici in Acciaio Inox 316L 316L Stainless Steel Push-in Fittings

-20° ÷ 180°C 20 bar -99 KPa



1	Corpo Body	Acciaio Inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Anello estrattore Release ring	Acciaio Inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
3	Pinza aggraffaggio Gripping ring	Acciaio inox AISI 301 Stainless steel AISI 301
4	Anello di ritegno Holding ring	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
5	Anello porta pinza Protection ring	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
6	Guarnizioni Seals	FPM conforme FDA FPM, FDA compliant



	M5x0,8	G1/8	G1/4	G3/8	G1/2	R1/8	R1/4	R3/8	R1/2
3	●								
4	●	●				●	●		
6	●	●	●			●	●		
8		●	●	●		●	●	●	
10			●	●	●		●	●	●
12			●	●	●		●	●	●

Tubi di collegamento consigliati:
Tubo in PVDF, Tubo in PTFE, Tubo in Acciaio Inox (per l'impiego di tubo in metallo si rimanda alle Istruzioni di Montaggio)

Tolleranze accettabili sui tubi:
+/– 0.07 mm fino a Ø 10 mm
+/– 0.1 mm da Ø 10 a Ø 12 mm

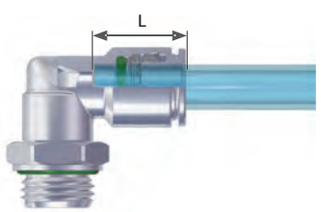
Campi di applicazione:
Pneumatica, Industria Alimentare, Chimica e Medicale-Farmaceutica

Recommended tubings:
PVDF, PTFE and Stainless steel tubes (for metal hose assembly see relevant instructions)

Acceptable Tolerances on the tubings:
+/– 0.07 mm up to 10 mm.
+/– 0.1 mm from diam 10 up to 12 mm

Application fields:
Pneumatics, Food Industry, Chemical, Medical and Pharmaceutical Industry

Profondità di inserimento del tubo



Tubing insertion depth

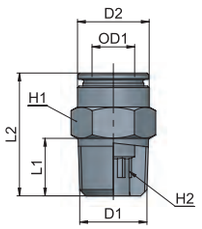
OD	L
4	13,2
6	16,1
8	16,2
10	18,3
12	19,5

MX 11

Diritto maschio conico

Taper straight, male

Type	OD1	D1	D2	L1	L2	H1	H2	g
11 04 18	4	R1/8	9	7,5	16,5	10	3	6,3
11 04 14	4	R1/4	9	11	20,5	14	3	16,1
11 06 18	6	R1/8	11,7	7,5	21	12	4	9,5
11 06 14	6	R1/4	12	11	20,5	14	4	14,3
11 08 18	8	R1/8	13,7	7,5	25	14	6	13,5
11 08 14	8	R1/4	13,7	11	23,5	14	6	14,4
11 08 38	8	R3/8	13,9	11,5	22,5	17	6	23,7
11 10 14	10	R1/4	15,7	11	30,5	16	8	20,3
11 10 38	10	R3/8	16	11,5	24	17	8	21,5
11 10 12	10	R1/2	15,7	14	27	22	8	45,9
11 12 14	12	R1/4	18,7	11	32	19	8	29,1
11 12 38	12	R3/8	18,7	11,5	27,5	19	10	25,7
11 12 12	12	R1/2	19	14	27,5	22	10	42,1

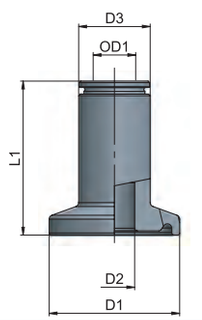


MX 11 XT

Raccordo automatico con attacco Clamp

Clamp to push-in fitting

Type	OD1	D1	D2	D3	L1	g
11 06 XT D25	6	25	4,55	12	29,5	29,5
11 06 XT D50,4	6	50,4	4,55	12	29,5	98,2
11 08 XT D25	8	25	7,75	13,7	29,5	34,3
11 08 XT D50,4	8	50,4	7,75	13,7	29,5	105,7
11 10 XT D25	10	25	7,75	16	30	56,8
11 10 XT D50,4	10	50,4	7,75	16	30	102,6



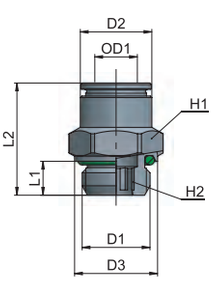
Surface finishing of the Clamp side: **SF1 Class**

MX 12

Diritto maschio cilindrico

Parallel straight, male

Type	OD1	D1	D2	D3	L1	L2	H1	H2	g
12 03 M5	3	M5x0,8	6,5	9	4	16	8	-	3,0
12 04 M5	4	M5x0,8	9	8	4	19	9	-	4,9
12 04 18	4	G1/8	9	12,9	5	16,5	13	3	8,1
12 06 M5	6	M5x0,8	11,8	8	4	22,5	12	-	10,3
12 06 18	6	G1/8	11,7	12,9	5	19,5	13	4	9,2
12 06 14	6	G1/4	11,7	15,8	6,5	19,5	16	4	15,8
12 08 18	8	G1/8	13,7	12,9	5	23	14	6	12,8
12 08 14	8	G1/4	13,7	15,9	6,5	21,5	16	6	15,5
12 08 38	8	G3/8	13,7	20	7	21,5	17	6	24,4
12 10 14	10	G1/4	15,7	15,8	6,5	27,5	16	8	19,2
12 10 38	10	G3/8	16	20	7	25	17	8	24,4
12 10 12	10	G1/2	15,8	25	8,5	25,5	22	8	42,5
12 12 14	12	G1/4	18,8	16	6,5	28,5	19	8	13,0
12 12 38	12	G3/8	18,8	20	7	28	21	10	31,8
12 12 12	12	G1/2	18,8	25	8,5	26,5	22	10	41,8

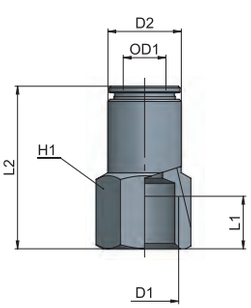


MX 13

Diritto femmina

Female straight

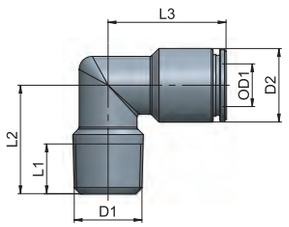
Type	OD1	D1	D2	L1	L2	H1	g
13 04 18	4	G1/8	9	7	24,5	13	11,2
13 06 18	6	G1/8	12	7	26,5	13	15,4
13 06 14	6	G1/4	12	10	31	16	20,8
13 08 18	8	G1/8	13,8	7	26,5	14	18,2
13 08 14	8	G1/4	14	10	31	16	22,7
13 08 38	8	G3/8	14	11	32,5	21	33,2
13 10 14	10	G1/4	15,7	10	33	16	24,0
13 10 38	10	G3/8	16	11	34,5	21	16,6
13 10 12	10	G1/2	16	11	36	24	41,4
13 12 38	12	G3/8	19	11	35,5	21	77,5
13 12 12	12	G1/2	19	11	37	24	48,4



MX 14

Gomito maschio conico

Taper elbow fitting, male

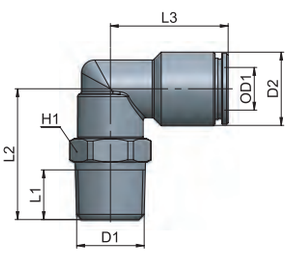


Type	OD1	D1	D2	L1	L2	L3	g
14 04 18	4	R1/8	9	9,8	17	17,5	10,2
14 06 18	6	R1/8	12	9,8	17	20,5	14,0
14 06 14	6	R1/4	12	11,3	20,7	20,5	20,8
14 08 18	8	R1/8	14	9,5	18	22,5	19,6
14 08 14	8	R1/4	14	11,3	20,7	22,5	22,3
14 10 14	10	R1/4	16	12,1	21,5	24,5	39,5

MX 15

Gomito maschio conico girevole

Taper swivelling elbow fitting, male

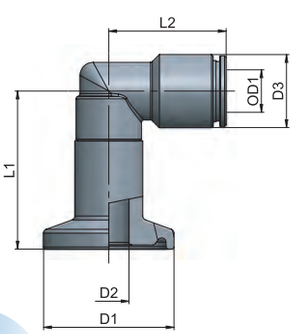


Type	OD1	D1	D2	L1	L2	L3	H1	g
15 04 18	4	R1/8	9	7,5	18	17,5	10	10,8
15 06 18	6	R1/8	12	7,5	20,5	21,5	13	21,2
15 06 14	6	R1/4	12	11	24,5	21,5	14	25,2
15 08 18	8	R1/8	14	7,5	20,5	22,5	13	22,2
15 08 14	8	R1/4	14	11	24,5	22,5	14	26,3
15 08 38	8	R3/8	14	11,5	25	22,5	17	31,3
15 10 14	10	R1/4	16	11	27	26	16	37,5
15 10 38	10	R3/8	16	11,5	27,5	26	17	41,1
15 10 12	10	R1/2	16	14	32	26	22	54,4
15 12 14	12	R1/4	19	11	30,5	28,5	21	63,9
15 12 38	12	R3/8	19	11,5	31	28,5	21	65,1
15 12 12	12	R1/2	19	14	34	28,5	22	71,5

MX 15 XT

Raccordo automatico a 90° con attacco Clamp

Clamp to push-in 90° fitting



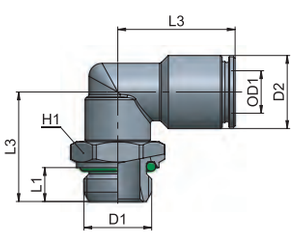
Type	OD1	D1	D2	D3	L1	L2	g
15 06 XT D25	6	25	7,75	12	29,8	21,5	39,8
15 06 XT D50,4	6	50,4	7,75	12	29,8	21,5	114,3
15 08 XT D25	8	25	7,75	14	30,3	22,5	41,7
15 08 XT D50,4	8	50,4	7,75	14	30,3	22,5	115,9
15 10 XT D25	10	25	7,75	16	31,8	26	68,0
15 10 XT D50,4	10	50,4	7,75	16	31,8	26	122,0

Surface finishing of the Clamp side: **SF1 Class**

MX 16

Gomito maschio cilindrico girevole

Parallel swivelling elbow fitting, male



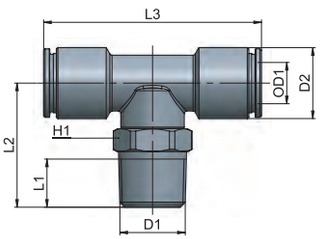
Type	OD1	D1	D2	L1	L2	L3	H1	g
16 04 M5	4	M5x0,8	9	4	14,5	17,5	9	8,7
16 04 18	4	G1/8	9	5	16,5	17,5	13	12,2
16 06 M5	6	M5x0,8	12	4	15,5	20,5	9	13,2
16 06 18	6	G1/8	12	5	18,5	21,5	13	20,3
16 06 14	6	G1/4	12	6,5	20,5	21,5	16	24,3
16 08 18	8	G1/8	14	5	18,5	22,5	13	21,9
16 08 14	8	G1/4	14	6,5	20,5	22,5	16	25,8
16 08 38	8	G3/8	14	7	22,5	22,5	21	35,1
16 10 14	10	G1/4	16	6,5	23	26	16	34,6
16 10 38	10	G3/8	16	7	24,5	26	21	41,0
16 10 12	10	G1/2	16	8,5	29	26	22	52,3
16 12 14	12	G1/4	19	6,5	26	28,5	21	62,0
16 12 38	12	G3/8	19	7	26,5	28,5	21	59,5
16 12 12	12	G1/2	19	8,5	31	28,5	22	69,2

MX 20

T centrale maschio conico girevole

Swivelling T fitting, taper

Type	OD1	D1	D2	L1	L2	L3	H1	g
20 04 18	4	R1/8	9	7,5	21,5	35	10	16,1
20 06 18	6	R1/8	12	7,5	20,5	43	13	30,3
20 06 14	6	R1/4	12	11	24,5	43	14	33,9
20 08 18	8	R1/8	14	7,5	20,5	43	13	32,2
20 08 14	8	R1/4	14	11	24,5	43	14	35,4
20 10 14	10	R1/4	16	11	27,5	51	16	61,0
20 10 38	10	R3/8	16	11,5	28	51	17	64,1
20 12 38	12	R3/8	19	11,5	31	57	21	82,6
20 12 12	12	R1/2	19	14	34	57	22	88,7

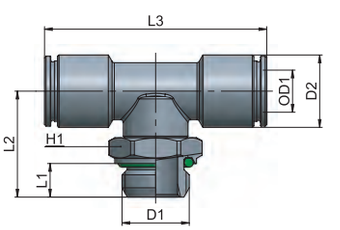


MX 21

T centrale maschio cilindrico girevole

Swivelling T fitting, parallel

Type	OD1	D1	D2	L1	L2	L3	H1	g
21 04 M5	4	M5x0,8	9	4	18	35	9	14,0
21 04 18	4	G1/8	9	5	20	35	13	17,6
21 06 18	6	G1/8	12	5	18,5	43	13	29,2
21 06 14	6	G1/4	12	6,5	20,5	43	16	33,3
21 08 18	8	G1/8	14	5	18,5	43	13	30,7
21 08 14	8	G1/4	14	6,5	20,5	43	16	34,8
21 10 14	10	G1/4	16	6,5	22,5	51	16	57,1
21 10 38	10	G3/8	16	7	24,5	51	21	63,9
21 12 38	12	G3/8	19	7	26,5	57	21	76,9
21 12 12	12	G1/2	19	8,5	31	57	22	85,7

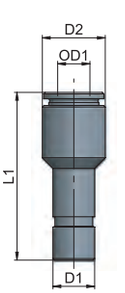


MX 25

Riduzione

Reducer

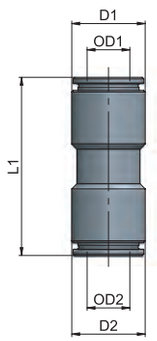
Type	OD1	D1	D2	L1	g
25 04 06	4	6	9	30,5	6,5
25 06 08	6	8	12	32	11,9
25 06 10	6	10	12	35	15,1
25 08 10	8	10	14	35	14,8
25 08 12	8	12	14	38	21,5
25 10 12	10	12	16	41	20,5



MX 26

Giunzione intermedia

Union

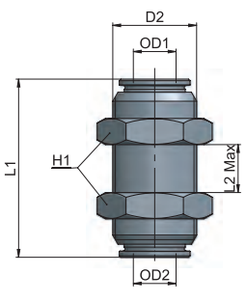


Type	OD1	OD2	D1	D2	L1	g
26 04 04	4	4	9	9	28	7,8
26 06 06	6	6	12	12	33,6	15,7
26 06 04	6	4	12	12	31	15,5
26 08 08	8	8	14	14	34	19,5
26 08 06	8	6	14	14	34	23,8
26 10 10	10	10	16	16	38,6	24,9
26 10 08	10	8	16	14	37,1	23,3
26 12 12	12	12	19	19	41	40,0
26 12 10	12	10	19	16	40,3	34,2

MX 27

Giunzione intermedia passaparete

Bulkhead union

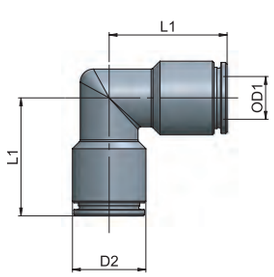


Type	OD1	D2	L1	L2	H1	g
27 04 04	4	M12x1	28	11,5	16	19,9
27 06 06	6	M14x1	34	15,5	17	31,4
27 08 08	8	M16x1	34	15,5	19	36,8
27 10 10	10	M18x1	39	18,5	21	48,4
27 12 12	12	M20x1	41	20,5	24	61,8

MX 28

Gomito intermedio

Union elbow



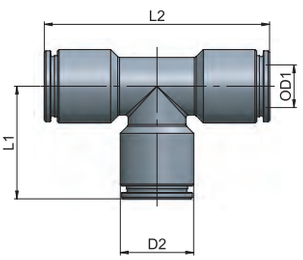
Type	OD1	D2	L1	g
28 04 04	4	9	17,5	11,7
28 06 06	6	12	21	18,0
28 08 08	8	14	22,5	24,1
28 10 10	10	16	24,5	43,0
28 12 12	12	18	27	49,3

MX 29

T intermedio

Union T

Type	OD1	D2	L1	L2	g
29 04 04	4	9	17,5	35	14,6
29 06 06	6	12	21	42	29,9
29 08 08	8	14	21,5	43	30,6
29 10 10	10	16	24,5	49	56,1
29 12 12	12	18	27	54	65,9



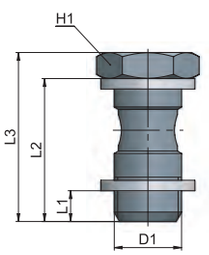
MX 31

Asta singola

Simple screw

Type	D1	L1	L2	L3	H1	g
31 00 18	G1/8	5,4	24,9	28,9	14	15,1
31 00 14	G1/4	6,4	27,4	32,4	17	26,1
31 00 38	G3/8	6,4	30	36	21	43,6
31 00 12	G1/2	7,5	35,5	41,5	26	76,5

Rondella standard in PTFE - Standard PTFE gasket

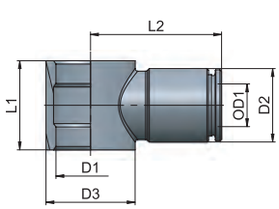


MX 35

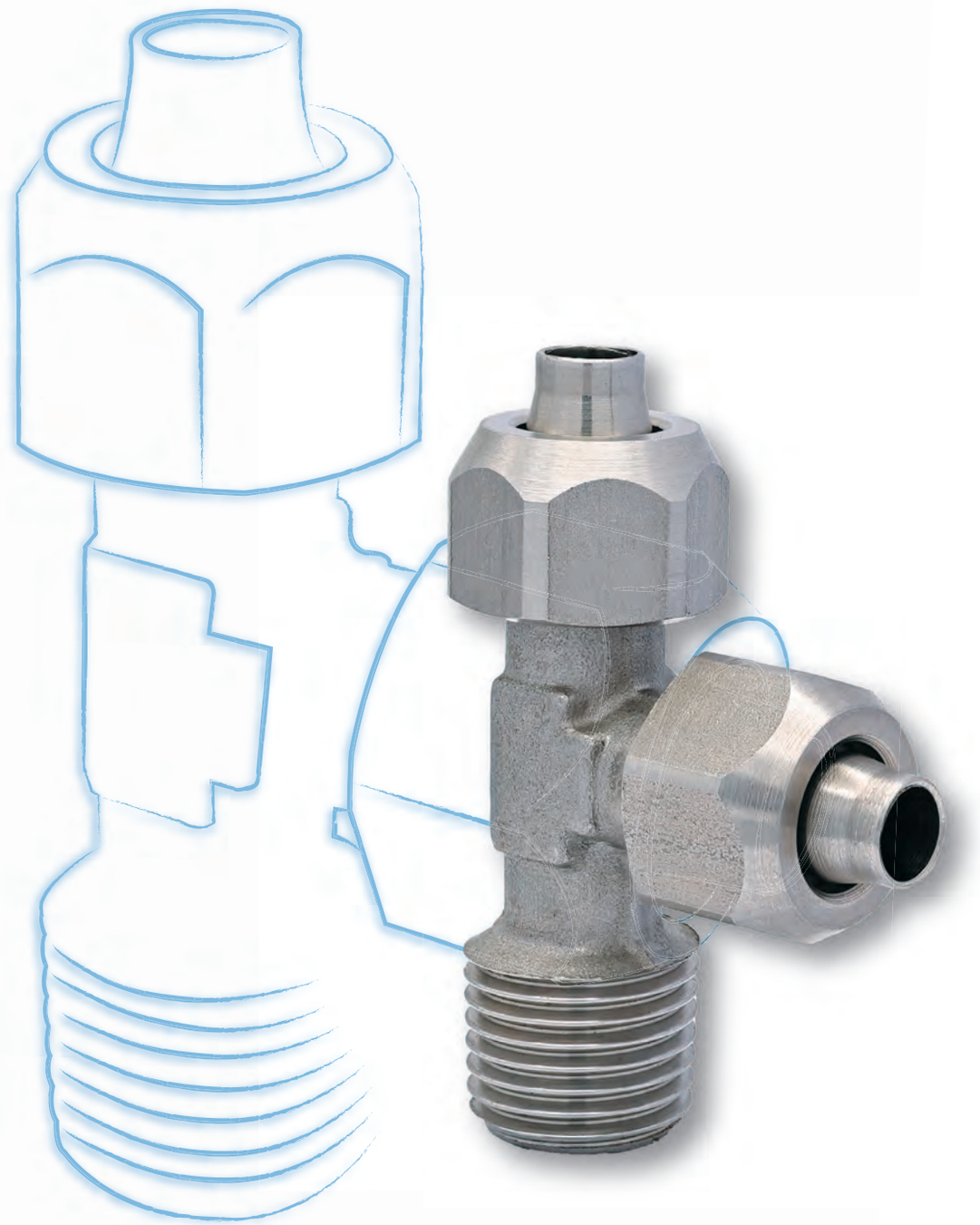
Anello singolo

Single banjo ring

Type	OD1	D1	D2	D3	L1	L2	g
35 04 18	4	10	9	14	15	20,5	13,1
35 06 18	6	10	12	14	15	22,5	16,1
35 06 14	6	13,2	12	17	17	24	18,7
35 08 18	8	10	14	14	15	23	16,6
35 08 14	8	13,2	14	17	17	25	20,4
35 10 14	10	13,2	16	17	17	27	23,1
35 10 38	10	17	16	22	20	29	35,5
35 12 38	12	17	16	22	20	31	40,8
35 12 12	12	21	19	26	24	33	52,2



cmatic®
PNEUMATIC FITTINGS



CX LINE

IT

Raccordi a Calzamento in Acciaio Inox 316L

Grazie all'assenza di guarnizioni di tenuta e alla realizzazione completamente in acciaio inossidabile AISI 316L, i raccordi a calzamento della Serie CX trovano applicazione in caso di temperature molto elevate e dove è necessario convogliare fluidi aggressivi non compatibili con guarnizioni in FPM.

EN

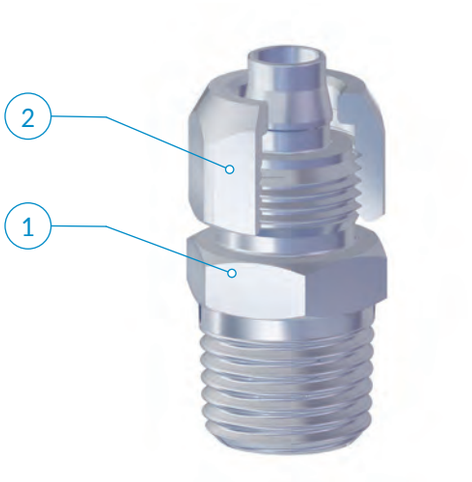
316L Stainless Steel Push-on Fittings

CX is a "push-on" fitting made of AISI 316L completely free of Orings since developped for heavy duty applications with high temperatures and aggressive fluids, enviroment where FPM Orings would not be suitable.

CX Line

Raccordi a Calzamento in Acciaio Inox 316L 316L Stainless Steel Push-on Fittings

-40° ÷ 250°C 25 bar -99 KPa



1	Corpo Body	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Dado Nut	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)

	G1/8	G1/4	G3/8	G1/2	R1/8	R1/4	R3/8	R1/2
6	●	●			●	●		
8	●	●	●		●	●		
10		●	●			●	●	
12			●	●		●	●	●

Tubi di collegamento consigliati:
Tubo in PTFE

Recommended tubings:
PTFE tubings

Tolleranze accettabili sui tubi:
+/– 0,07 mm fino a Ø 10 mm
+/– 0,1 mm fino Ø 12 mm

Acceptable Tolerances on the tubings:
+/– 0,07 mm up to Ø 10 mm
+/– 0,1 mm up to Ø 12 mm

Campi di applicazione:
Pneumatica, Industria Alimentare, Chimica e Medicale-Farmaceutica

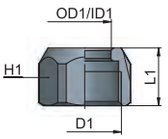
Application fields:
Pneumatics, Food Industry, Chemical, Medical and Pharmaceutical Industry

CX 10

Dado

Nut

Type	OD1	ID1	D1	L1	H1	g
10 06 10	6	4	M10x1	10	12	4,4
10 08 12	8	6	M12x1	10	14	5,5
10 10 14	10	8	M14x1	11	16	7,0
10 12 16	12	10	M16x1	12	19	-

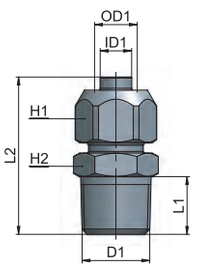


CX 11

Diritto maschio conico

Taper straight, male

Type	OD1	ID1	D1	L1	L2	H1	H2	g
11 06 18	6	4	R1/8	7,5	26	12	10	11,6
11 06 14	6	4	R1/4	11	29,5	12	14	17,5
11 08 18	8	6	R1/8	7,5	26,5	14	13	16,5
11 08 14	8	6	R1/4	11	30	14	14	20,3
11 10 14	10	8	R1/4	11	32,5	16	14	23,6
11 10 38	10	8	R3/8	11,5	33	16	17	29,9
11 12 14	12	10	R1/4	11	34	19	17	34,8
11 12 38	12	10	R3/8	11,5	34,5	19	17	34,6
11 12 12	12	10	R1/2	14	38	19	22	48,4



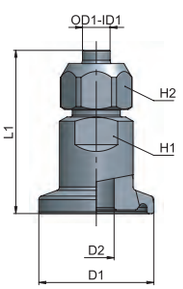
CX 11 XT

Raccordo a calzamento con attacco Clamp

Clamp to push on fitting

Type	OD1	D1	D2	L1	H1	H2	g
11 06 XT D25	6	25	7,75	35	12	12	37,6
11 06 XT D50,4	6	50,4	7,75	35	12	12	-
11 08 XT D25	8	25	7,75	35,5	13	14	49,9
11 08 XT D50,4	8	50,4	7,75	35,5	13	14	114,0
11 10 XT D25	10	25	7,75	37,5	16	16	55,9
11 10 XT D50,4	10	50,4	7,75	37,5	16	16	105,5

Surface finishing of the Clamp side: **SF1 Class**

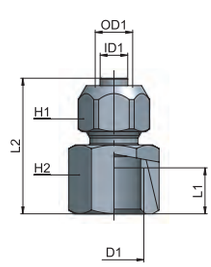


CX 13

Diritto femmina

Female straight

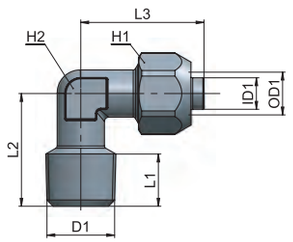
Type	OD1	ID1	D1	L1	L2	H1	H2	g
13 06 18	6	4	G1/8	7	25	12	13	14,6
13 06 14	6	4	G1/4	10	28,5	12	17	22,8
13 08 18	8	6	G1/8	7	25,5	14	13	17,7
13 08 14	8	6	G1/4	10	29,5	14	17	26,9
13 08 38	8	6	G3/8	11	31	14	21	37,4
13 10 14	10	8	G1/4	10	31,5	16	17	29,5
13 10 38	10	8	G3/8	11	33	16	17	40,8
13 12 38	12	10	G3/8	11	34,5	19	21	47,6
13 12 12	12	10	G1/2	11	35	19	24	50,5



CX 14

Gomito maschio conico

Taper elbow fitting, male

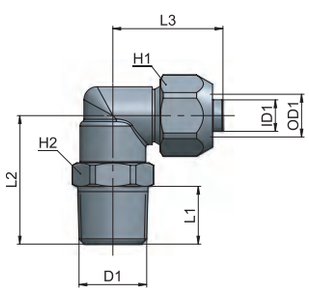


Type	OD1	ID1	D1	L1	L2	L3	H1	H2	g
14 06 18	6	4	R1/8	6,5	17	23	12	10	16,6
14 06 14	6	4	R1/4	10	21,5	23	12	10	20,5
14 08 18	8	6	R1/8	6,5	17	23,5	14	10	17,6
14 08 14	8	6	R1/4	10	21,5	23,5	14	10	21,1
14 10 14	10	8	R1/4	9,5	21,5	26	16	12	29,5
14 10 38	10	8	R3/8	11	24	26	16	12	35,3
14 12 38	12	10	R3/8	12,6	35,5	30,5	19	17	52,2
14 12 12	12	10	R1/2	13,5	30	33	19	19	52,2

CX 15

Gomito maschio conico girevole

Taper swivelling elbow fitting, male



Type	OD1	ID1	D1	L1	L2	L3	H1	H2	g
15 06 18	6	4	R1/8	7,5	20	21	12	13	27,1
15 06 14	6	4	R1/4	11	24	21	12	14	26,5
15 08 18	8	6	R1/8	7,5	20	21	14	13	24,6
15 08 14	8	6	R1/4	11	24	21	14	14	28,6
15 10 14	10	8	R1/4	11	25,5	24	16	14	33,7
15 10 38	10	8	R3/8	11,5	26	24	16	17	37,9

Guarnizione FPM conforme FDA - FPM Seals, FDA compliant

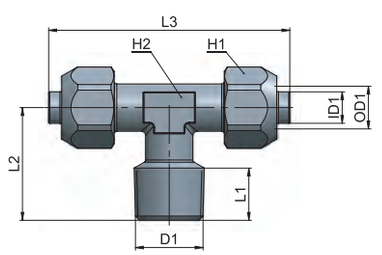
-20°C ÷ 180°C

20 bar

CX 20

T centrale conico

Taper male T

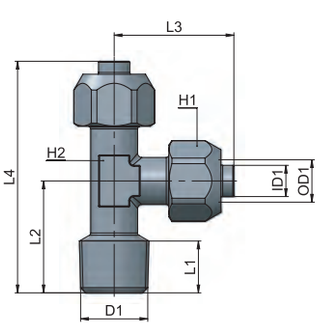


Type	OD1	ID1	D1	L1	L2	L3	H1	H2	g
20 06 18	6	4	R1/8	6,5	17	46	12	10	29,0
20 06 14	6	4	R1/4	9,5	21	46	12	10	31,6
20 08 18	8	6	R1/8	6,5	17	46	14	10	30,3
20 08 14	8	6	R1/4	10	21,5	46	14	10	33,7
20 10 14	10	8	R1/4	9,5	21,5	52	16	12	39,7
20 10 38	10	8	R3/8	11	24	52	16	12	53,0
20 12 38	12	10	R3/8	12,6	60	52	19	17	80,7
20 12 12	12	10	R1/2	13,9	60	52	19	17	88,2

CX 23

T centrale conico

Taper male T



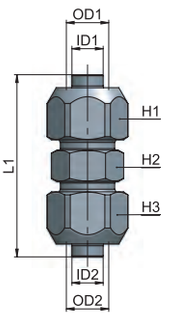
Type	OD1	ID1	D1	L1	L2	L3	L4	H1	H2	g
23 06 18	6	4	R1/8	9,9	17	23	40	12	10	28,3
23 06 14	6	4	R1/4	10	21,5	23	44,5	12	10	31,2
23 08 18	8	6	R1/8	6,5	17	23	40	14	10	30,4
23 08 14	8	6	R1/4	10	21,5	23	44,5	14	10	34,1
23 10 14	10	8	R1/4	9,5	21,5	26	47,5	16	12	39,5
23 10 38	10	8	R3/8	11	24	26	50	16	12	53,2
23 12 38	12	10	R3/8	12,6	25,5	30	55,5	19	17	79,6
23 12 12	12	10	R1/2	13,9	28	30	58	19	17	86,9

CX 26

Giunzione intermedia

Union

Type	OD1	ID1	OD2	ID2	L1	H1	H2	H3	g
26 06 06	6	4	6	4	34	12	10	12	20,0
26 08 08	8	6	8	6	35	14	12	14	25,7
26 08 06	8	6	6	4	34,5	14	12	12	23,5
26 10 10	10	8	10	8	39	16	14	16	35,8
26 10 08	10	8	8	6	37	16	14	14	31,8
26 12 12	12	10	12	10	42	19	16	19	50,8
26 12 10	12	10	10	8	40,5	19	16	16	44,8

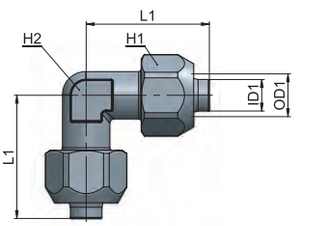


CX 28

Gomito intermedio

Union elbow

Type	OD1	ID1	L1	H1	H2	g
28 06 06	6	4	23	12	10	24,9
28 08 08	8	6	23,5	14	10	26,9
28 10 10	10	8	26	16	12	33,3
28 12 12	12	10	30	19	17	67,6

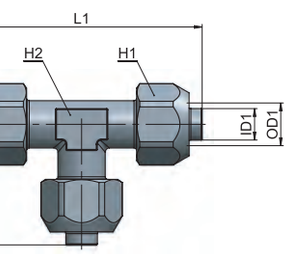


CX 29

T intermedio

Union T

Type	OD1	ID1	L1	L2	H1	H2	g
29 06 06	6	4	46	23	12	10	36,4
29 08 08	8	6	46	23	14	10	39,0
29 10 10	10	8	52	26	16	12	47,6
29 12 12	12	10	60	30	19	17	94,7



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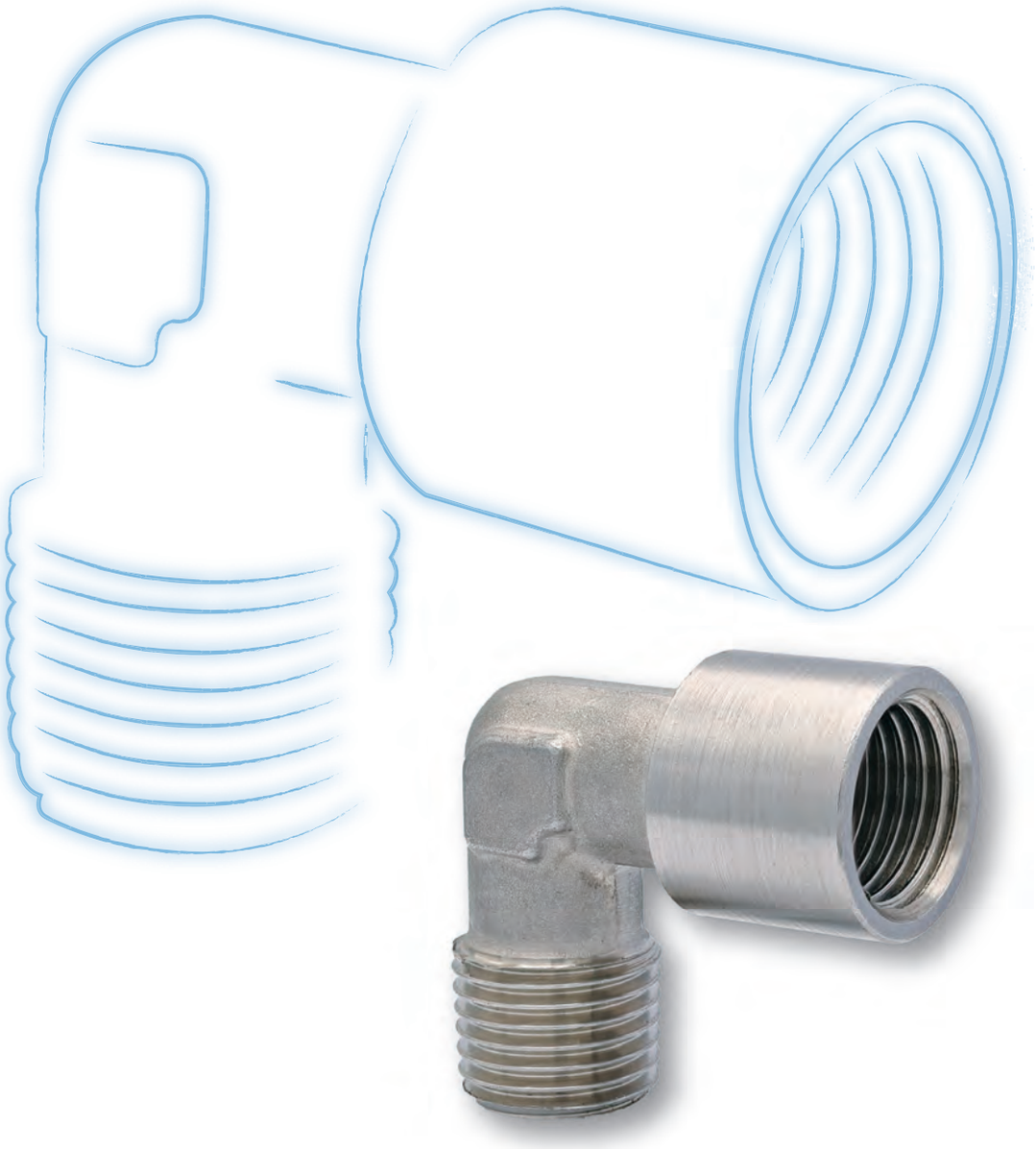
PNEUMATIC FITTINGS



RX LINE

IT

Raccordi Standard in Acciaio Inox 316L

La serie RX è costituita da raccordi standard in acciaio inox AISI 316L è il complemento delle serie di raccordi ad innesto rapido, a calzamento e dei raccordi a funzione in acciaio inossidabile.

EN

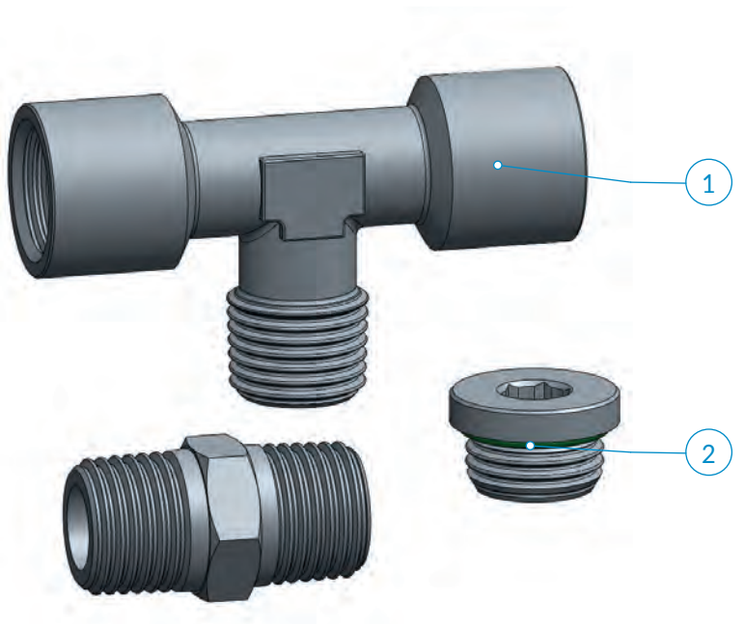
316L Stainless Steel Standard Fittings

RX are our standard fittings in stainless steel AISI 316L; the right complement to our AISI 316L Fittings programm.

RX Line

Raccordi Standard in Acciaio Inox 316L 316L Stainless Steel Standard Fittings

-40° ÷ 200°C 150 bar



1	Corpo Body	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Guarnizioni Seals	FPM conforme FDA FPM, FDA compliant

M5x0,8	G1/8	G1/4	G3/8	G1/2	R1/8	R1/4	R3/8	R1/2
●	●	●	●	●	●	●	●	●

Campi di applicazione:
Pneumatica, Industria Alimentare, Chimica e Medicale-Farmaceutica

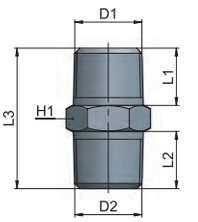
Application fields:
Pneumatics, Food Industry, Chemical, Medical and Pharmaceutical Industry

RX 12

Nipplo conico

Nipple, taper

Type	D1	D2	L1	L2	L3	H1	g
12 18 18	R1/8	R1/8	7,5	7,5	20	12	8,1
12 18 14	R1/8	R1/4	7,5	11	23,5	14	12,5
12 14 14	R1/4	R1/4	11	11	27	14	14,8
12 14 38	R1/4	R3/8	11	11,5	27,5	17	20,9
12 14 12	R1/4	R1/2	11	14	31	22	33,0
12 38 38	R3/8	R3/8	11,5	11,5	28	17	24,3
12 38 12	R3/8	R1/2	11,5	14	31,5	22	38,5
12 12 12	R1/2	R1/2	14	14	34	22	38,9

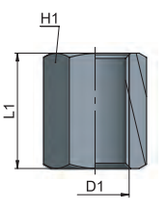


RX 13

Manicotto

Joint piece

Type	D1	L1	H1	g
13 00 18	G1/8	15	14	11,8
13 00 14	G1/4	22	17	21,6
13 00 38	G3/8	24	22	40,5
13 00 12	G1/2	30	27	73,8

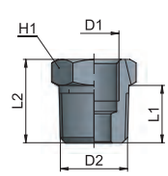


RX 14

Riduzione F-M conica

Taper female-male reducing connector

Type	D1	D2	L1	L2	H1	g
14 18 14	G1/8	R1/4	11	16	14	8,8
14 18 38	G1/8	R3/8	11,5	16,5	17	18,6
14 18 12	G1/8	R1/2	14	19,5	22	32,0
14 14 38	G1/4	R3/8	11,5	16,5	17	11,9
14 14 12	G1/4	R1/2	14	20	22	34,6
14 38 12	G3/8	R1/2	14	20	22	22,7

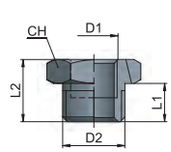


RX 15

Riduzione F-M cilindrica

Parallel female-male reducing connector

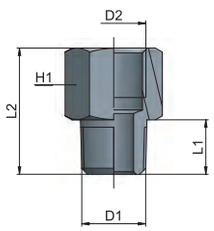
Type	D1	D2	L1	L2	H1	g
15 M5 18	M5x0,8	G1/8	6	10,5	14	7,8
15 18 14	G1/8	G1/4	8	13	17	10,5
15 14 38	G1/4	G3/8	9	14	19	12,7



RX 16

Prolunga M-F conica

Adaptor male-female, taper

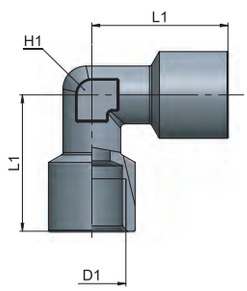


Type	D1	D2	L1	L2	H1	g
16 18 14	**R1/8**	**G1/4**	7,5	21	17	17,1
16 14 14	**R1/4**	**G1/4**	11	24,5	17	21,3
16 14 38	**R1/4**	**G3/8**	11	26	22	34,0
16 14 12	**R1/4**	**G1/2**	11	28,5	24	36,7
16 38 38	**R3/8**	**G3/8**	11,5	26,5	22	35,7
16 38 12	**R3/8**	**G1/2**	11,5	28,5	24	36,4
16 12 12	**R1/2**	**G1/2**	14	33,5	24	39,9

RX 21

Gomito F-F

Female elbow

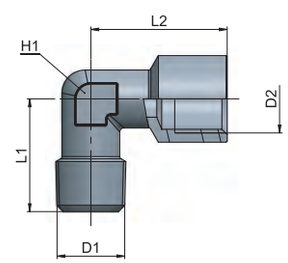


Type	D1	L1	H1	g
21 18 18	**G1/8**	22	10	19,0
21 14 14	**G1/4**	26	12	37,4
21 38 38	**G3/8**	28	17	44,0
21 12 12	**G1/2**	34	19	75,6

RX 22

Gomito M-F

Male-female elbow

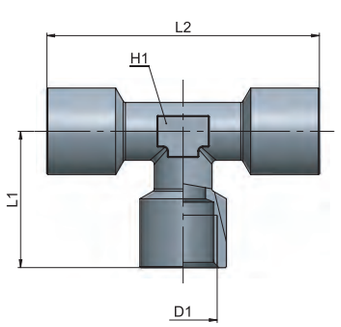


Type	D1	D2	L1	L2	H1	g
22 18 18	**R1/8**	**G1/8**	17	22	10	16,3
22 14 14	**R1/4**	**G1/4**	21,5	26	12	24,2
22 38 38	**R3/8**	**G3/8**	24,5	28	17	40,9
22 12 12	**R1/2**	**G1/2**	30,5	34	19	75,5

RX 23

T F-F-F

Female T



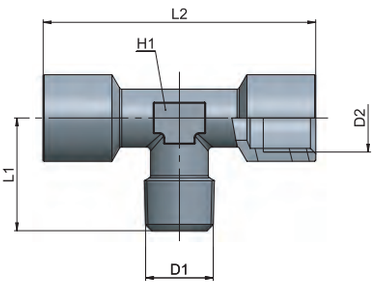
Type	D1	L1	L2	H1	g
23 18 18	**G1/8**	22	44	10	27,5
23 14 14	**G1/4**	26	52	12	41,0
23 38 38	**G3/8**	28	56	17	60,0
23 12 12	**G1/2**	34	68	19	121,5

RX 24

T F-M-F

Male-female stud T

Type	D1	D2	L1	L2	H1	g
24 18 18	R1/8	G1/8	17	44	10	22,5
24 14 14	R1/4	G1/4	21,5	52	12	34,6
24 38 38	R3/8	G3/8	24,5	56	17	57,5
24 12 12	R1/2	G1/2	30,5	68	19	110,5

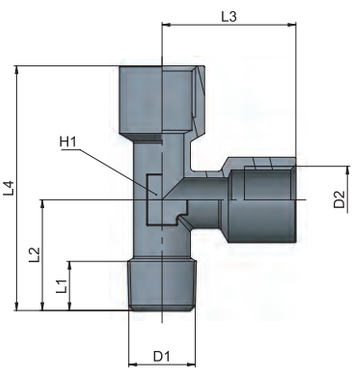


RX 25

T M-F-F

Male-female, lateral T

Type	D1	D2	L1	L2	L3	L4	H1	g
25 18 18	R1/8	G1/8	6,5	17	22	39	10	22,5
25 14 14	R1/4	G1/4	9,5	21,5	26	47,5	12	35,7
25 38 38	R3/8	G3/8	10	24,5	28	52,5	17	57,5
25 12 12	R1/2	G1/2	12	30,5	42,5	64,5	19	108,0

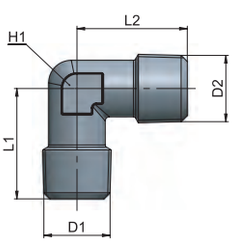


RX 35

Gomito M-M

Male-male elbow

Type	D1	D2	L1	L2	H1	g
35 18 18	R1/8	R1/8	17	17	10	10,1
35 14 14	R1/4	R1/4	21,5	21,5	12	18,8
35 38 38	R3/8	R3/8	24,5	24,5	17	37,9
35 12 12	R1/2	R1/2	30,5	30,5	19	62,0

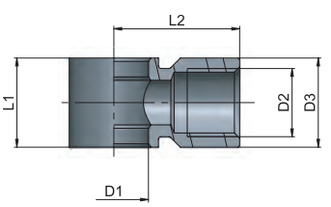


RX 42

Anello filettato

Single banjo ring

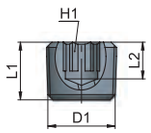
Type	D1	D2	D3	L1	L2	g
42 00 18	10	G1/8	14	15	18,5	15,0
42 00 14	13,2	G1/4	17	17	24	22,8
42 00 38	17	G3/8	20	20	29	37,2
42 00 12	21	G1/2	26	24	34,5	60,1



RX 43

Tappo conico

Taper plug

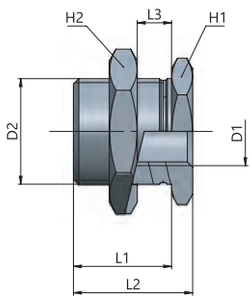


Type	D1	L1	L2	H1	g
43 00 18	R1/8	7,5	6	5	2,6
43 00 14	R1/4	11	7	6	8,4
43 00 38	R3/8	11,5	8	8	13,3
43 00 12	R1/2	14	9,9	10	25,7

RX 44

Passaparete filettato

Bulkhead connector

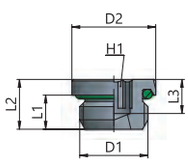


Type	D1	D2	L1	L2	L3	H1	H2	g
44 00 14	G1/4	M20x1,5	17,5	22,6	13	24	27	48,4
44 00 38	G3/8	M26x1,5	18,5	24,5	13	30	32	84,0
44 00 12	G1/2	M28x1,5	24,5	31,5	19	32	36	102,7

RX 46

Tappo maschio con oring

Male plug with oring

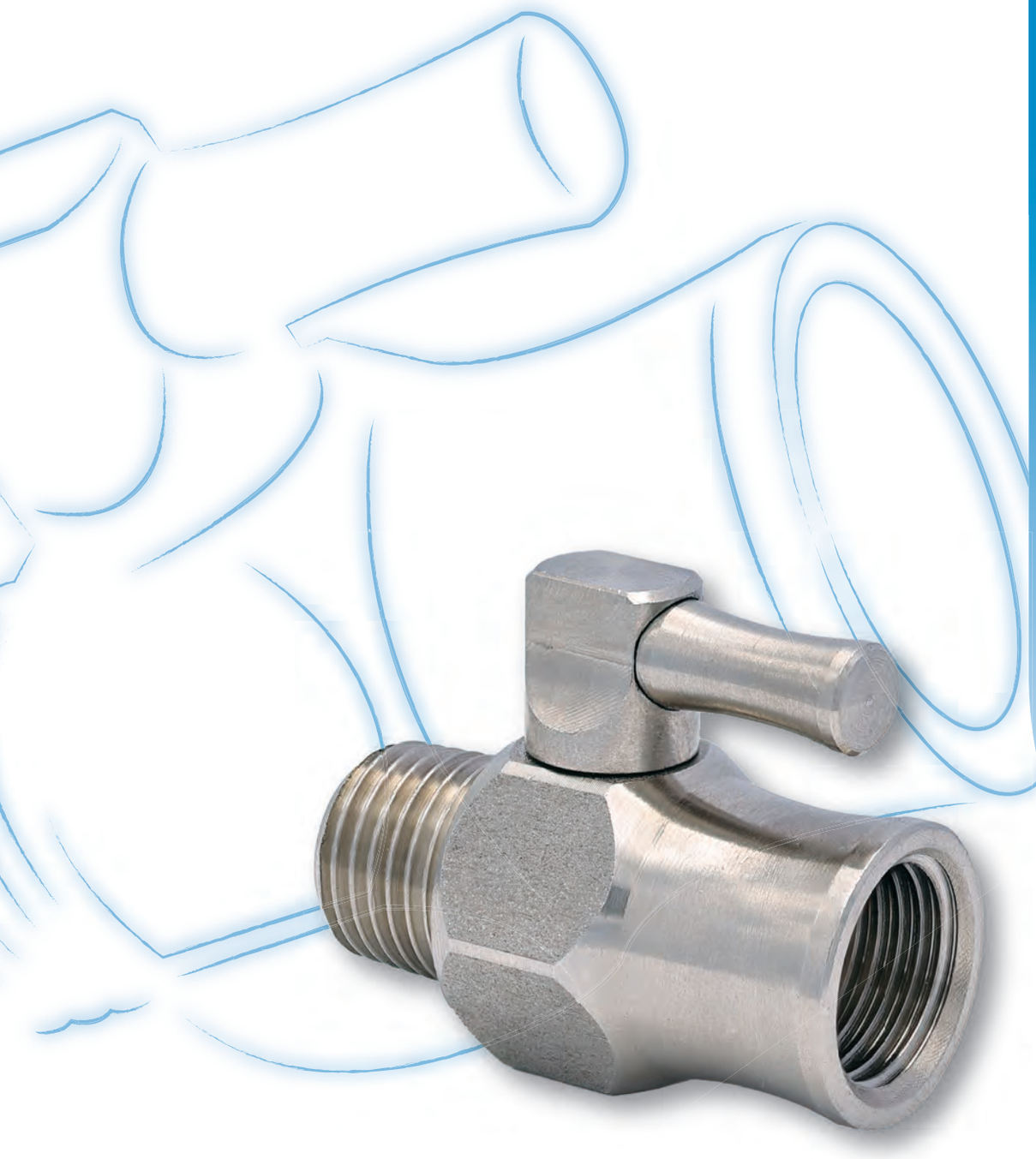


Type	D1	D2	L1	L2	L3	H1	g
46 00 18	G1/8	13	5	8	6	5	4,1
46 00 14	G1/4	16	6,5	9,5	6,5	6	8,3
46 00 38	G3/8	20	7	10,5	8	8	14,2
46 00 12	G1/2	25	8,5	13	8,5	10	28,8

Guarnizioni FPM -FPM Seals

-20°C ÷ 200°C

cmatic®
PNEUMATIC FITTINGS



VX LINE

IT

Raccordi a Funzione in Acciaio Inox 316L

La serie a funzione VX completa la gamma di raccordi in acciaio inox in 316L.

EN

316L Stainless Steel Function Fittings

The VX function fittings line complements all our SS316L product offer.

Raccordi a Funzione in Acciaio Inox 316L

316L Stainless Steel Function Fittings

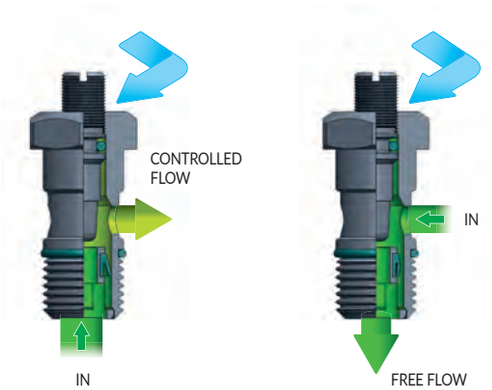
Questi dispositivi offrono la possibilità di regolare la portata d'aria in un circuito pneumatico. In base al tipo di regolatore impiegato, la regolazione può avvenire in entrambi i sensi (Regolatore Bidirezionale), oppure in un unico senso (Regolatore Unidirezionale).
I Regolatori di Flusso Unidirezionali, risultano particolarmente adatti per la regolazione della velocità di cilindri pneumatici.

They can adjust the flow in a pneumatic circuit. Depending on the flow control used, the setting can be made both ways (Bidirectional Flow Control), or just one way (Unidirectional Flow Control). The Unidirectional Flow Control is particularly used to adjust the speed of pneumatic cylinders.

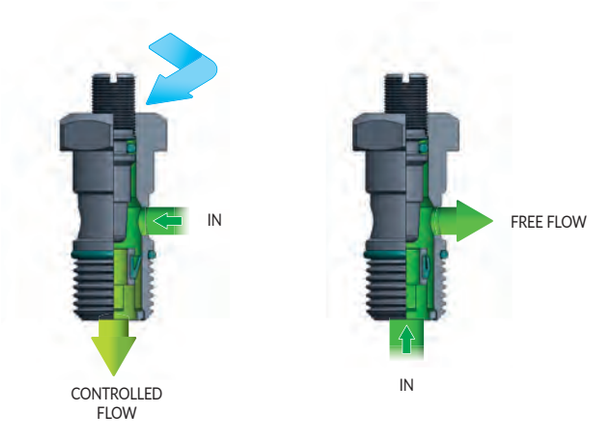
Possibili regolazioni di flusso

Possible Flow Adjustments

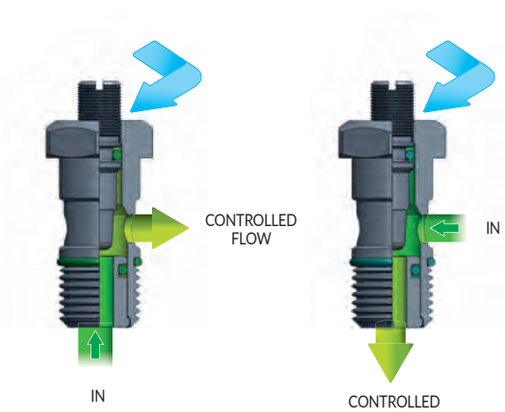
.../O = Regolazione del Flusso in Uscita
Meter out flow control



.../I = Regolazione del Flusso in Ingresso
Meter in flow control



.../B = Regolazione del Flusso in entrambe le direzioni
Bidirectional flow control

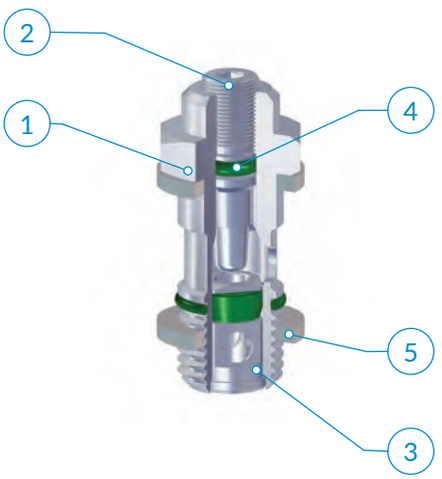


VX 15

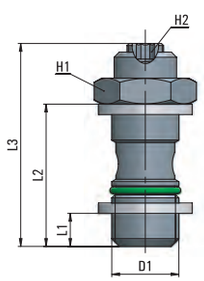
Regolatore di Flusso — Flow control

-20° ÷ 150°C

10 bar



1	Corpo Body	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Spillo Needle	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
3	Bussola Cartridge	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
4	Guarnizioni Seals	FPM conforme FDA FPM, FDA compliant
5	Rondella Gasket	PTFE PTFE



Type	D1	L1	L2	L3 max	H1	H2	g
15 00 18	G1/8	5,1	22,1	32,9	14	2,5	18,3
15 00 14	G1/4	6,4	27,4	41,8	17	3	34,5

Disponibile nelle versioni:
Available as:

.../O

.../I

.../B

Tubi di collegamento consigliati:
Variabili in funzione del tipo di raccordo collegato al regolatore.

Recommended tubings:
According to the fitting connected to the flow control.

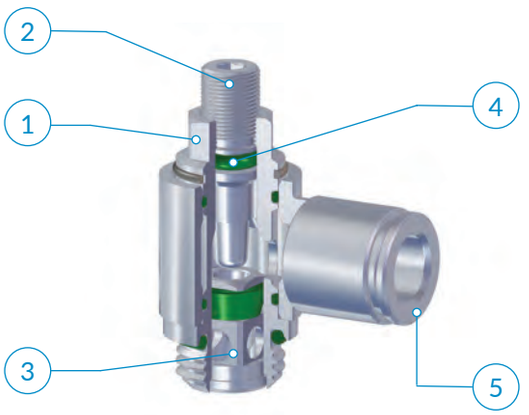
Campi di applicazione:
Impianti pneumatici alimentati con aria filtrata e lubrificata.

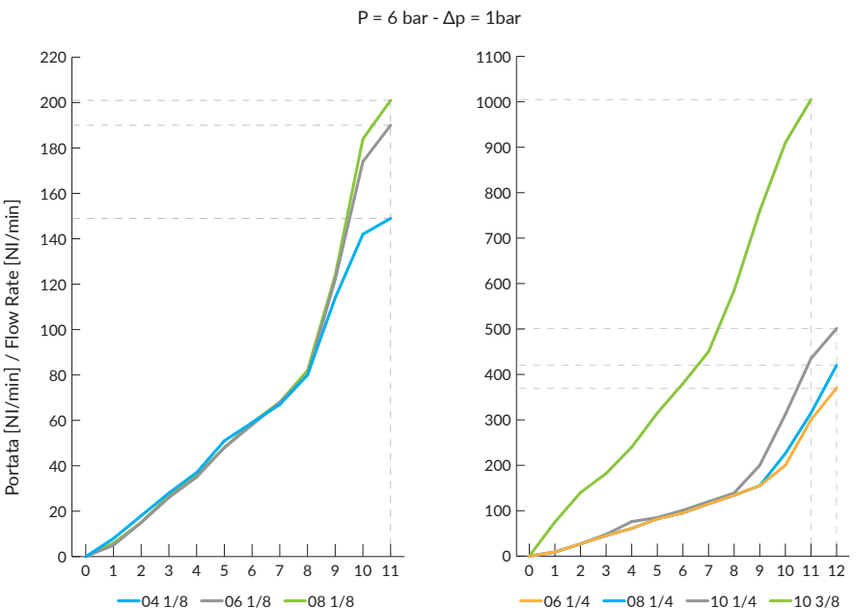
Application field:
Pneumatic installations fed with filtered, lubricated air.

VX 18

Regolatore con raccordo orientabile automatico Flow Control with swivelling push-in fitting

-20° ÷ 150°C 10 bar

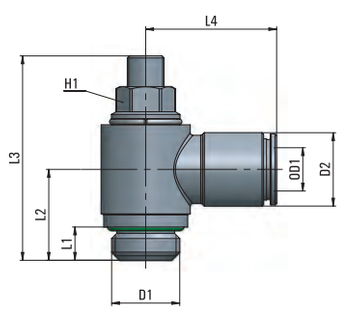




N° giri spillo di regolazione / N° of needle turns

1	Corpo Body	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Spillo Needle	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
3	Bussola Cartridge	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
4	Guarnizioni Seals	FPM conforme FDA FPM, FDA compliant
5	Raccordo automatico serie MX MX line push-in fitting	

L'anello rimane orientabile anche dopo l'installazione del regolatore.
The banjo ring swivels also after flow control installation.



Type	OD1	D1	D2	L1	L2	L3 max	L4	H1	g
18 04 18	4	G1/8	9	5,1	15	32,9	20,5	9	26,0
18 06 18	6	G1/8	12	5,1	15	32,9	22,5	9	28,8
18 06 14	6	G1/4	12	6,4	17,4	39	24	10	43,1
18 08 18	8	G1/8	14	5,1	15	32,9	23	9	29,5
18 08 14	8	G1/4	14	6,4	17,4	39	25	10	45,4
18 10 14	10	G1/4	16	6,4	17,4	39	27	10	47,0
18 10 38	10	G3/8	16	7	20	50	26	14	85,2

Disponibile nelle versioni:
Available as:

.../O .../I .../B

Tubi di collegamento consigliati:
Tubo in PVDF, Tubo in PTFE.

Recommended tubings:
PVDF and PTFE tubings.

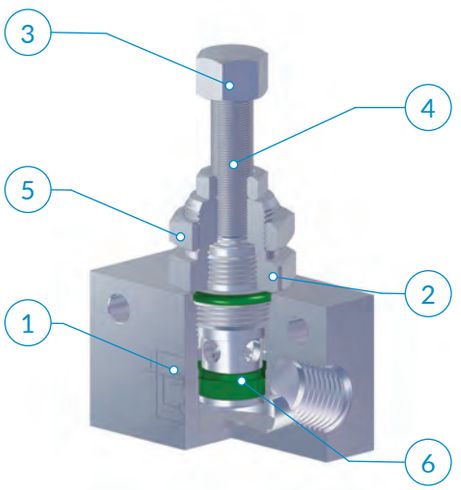
Campi di applicazione:
Impianti pneumatici alimentati con aria filtrata e lubrificata.

Application field:
Pneumatic installations fed with filtered, lubricated air.

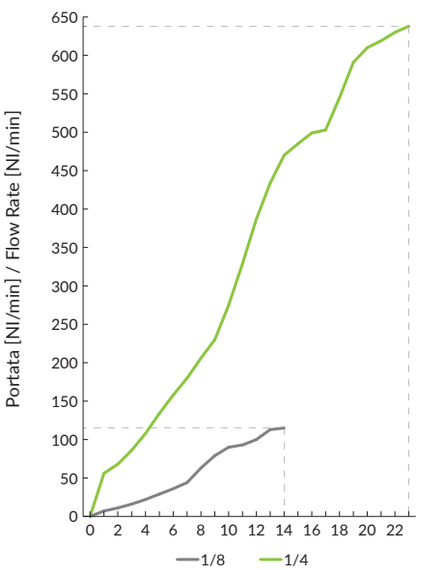
VX 21

Regolatore di flusso in linea In-line flow control

-20° ÷ 150°C 10 bar



P = 6 bar - Δp = 1bar

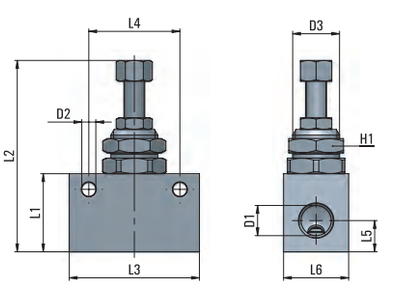


N° giri spillo di regolazione/ N°of needle turns

1	Corpo Body	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Regolatore Needle valve	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
3	Pomolo Handwheel	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
4	Spillo Needle	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
5	Dado Nut	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
6	Guarnizioni Seals	FPM conforme FDA FPM compliant with FDA

Type	D1	D2	D3	L1	L2 max	L3	L4	L5	L6	H1	g ⚖
21 00 18	**G1/8**	4,5	M12x0,75	20	51,6	34	24	7,5	15	14	72,5
21 00 14	**G1/4**	5,4	M18x1	30	74,6	50	35	12	25	21	281,4

NSF COMPONENT



Disponibile nelle versioni:
Available as:

.../U =

.../B

Tubi di collegamento consigliati:
Variabili in funzione del tipo di raccordo collegato al regolatore.

Recommended tubings:
According to the fitting connected to the flow control.

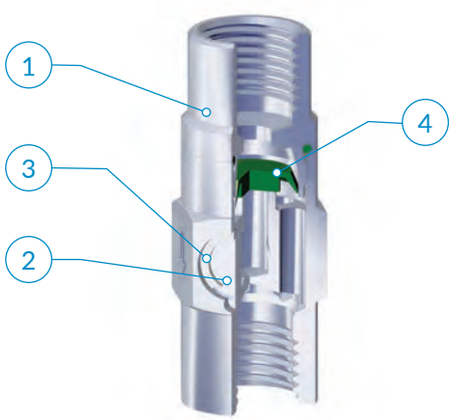
Campi di applicazione:
Impianti pneumatici alimentati con aria filtrata e lubrificata.

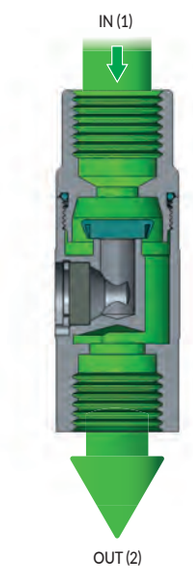
Application field:
Pneumatic installations fed with filtered, lubricated air.

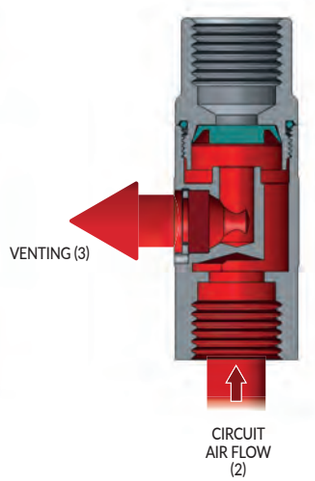
VX 22

Valvola di scarico rapido in inox Stainless steel quick exhaust valve

-20° ÷ 150°C 10 bar

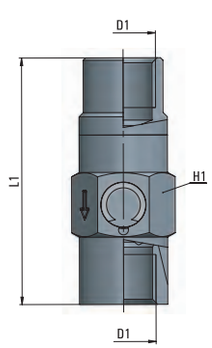




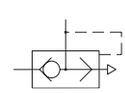


1	Corpo Body	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Silenziatore Muffler	Acciaio inox AISI 316 Stainless steel AISI 316
3	Seeger Seeger	Acciaio inox AISI 302 Stainless steel AISI 302
4	Guarnizioni Seals	FPM FPM

		IN OUT 1→2	OUT VENT 2→3
Portata a 6 bar Flow rate at 6 bar	1/4	1050 Nl/min	660 Nl/min
	3/8	3000 Nl/min	1900 Nl/min
	1/2	3420 Nl/min	2280 Nl/min



Type	D1	L1	H1	g
22 00 14	G1/4	49,5	18	51,5
22 00 38	G3/8	60,5	27	133,1
22 00 12	G1/2	68,5	35	257,0



Valvola in grado di scaricare rapidamente l'aria contenuta in un circuito in caso di mancanza d'alimentazione; se applicate ad un cilindro permettono di aumentarne la velocità.

Tubi di collegamento consigliati:
Variabili in funzione del tipo di raccordo collegato al regolatore.

Campi di applicazione:
Impianti pneumatici alimentati con aria filtrata e lubrificata.

This valve can easily vent the circuit in case of an air supply failure. If assembled on the cylinder port, it increases the cylinder speed.

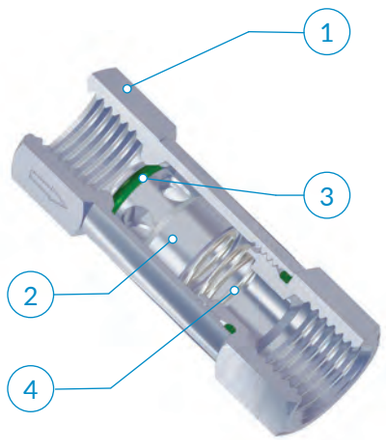
Recommended tubings:
According to the fitting connected to the flow control.

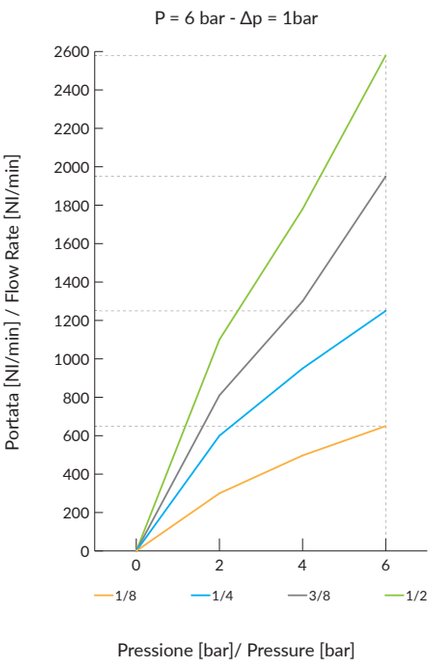
Application field:
Pneumatic installations fed with filtered, lubricated air.

VX 23

Valvola di non ritorno Check valve

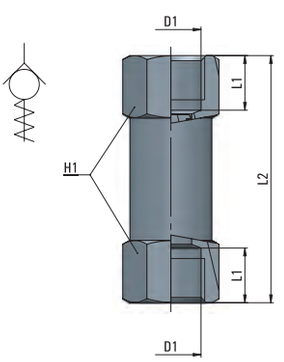
-20° ÷ 150°C 2÷10 bar 0,2 ba





1	Corpo Body	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Otturatore Valve	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
3	Guarnizioni Seals	FPM conforme FDA FPM compliant with FDA
4	Molla Spring	Acciaio inox AISI 302 Stainless steel AISI 302

Type	D1	L1	L2	H1	g
23 00 18	G1/8	8	39,7	13	26,0
23 00 14	G1/4	8,5	47,5	16	38,1
23 00 38	G3/8	10,5	51	21	76,1
23 00 12	G1/2	12,5	62	24	111,4



Queste valvole permettono il passaggio dell'aria in un unico senso (indicato sul corpo della valvola da una freccia) impedendolo in senso contrario.

The flow is allowed only in one way (the arrow direction engraved on the body) and stopped in the reverse way.

Tubi di collegamento consigliati:
Variabili in funzione del tipo di raccordo collegato al regolatore.

Recommended tubings:
According to the fitting connected to the flow control.

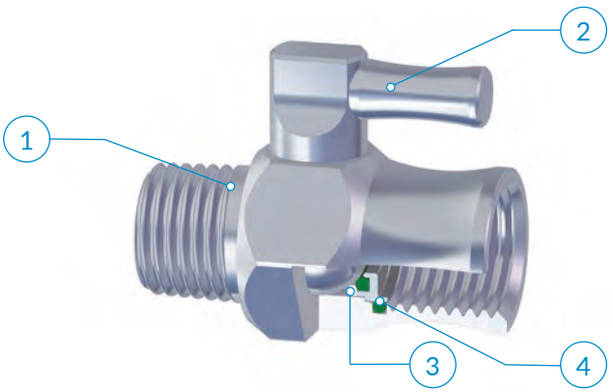
Campi di applicazione:
Impianti pneumatici alimentati con aria filtrata e lubrificata.

Application field:
Pneumatic installations fed with filtered, lubricated air.

VX 24-25

Valvola manuale 2 vie 2 way manual valve

-20° ÷ 150°C 10 bar



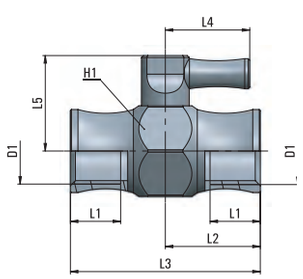
1	Corpo Body	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Leva Handle	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
3	Rondella Gasket	PTFE PTFE
4	Guarnizioni Seals	FPM conforme FDA FPM compliant with FDA

1/8	6 mm
1/4	6 mm
3/8	8 mm
1/2	10 mm

VX 24

Valvola manuale 2 vie, F-F

2 way manual valve, female

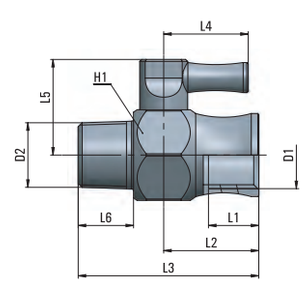


Type	D1	L1	L2	L3	L4	L5	H1	g
24 00 18	G1/8	8	19	37,8	17	19	18	54,0
24 00 14	G1/4	9	19	37,8	17	19	18	43,4
24 00 38	G3/8	10	24,5	39	24,5	26	22	67,0
24 00 12	G1/2	11	28,5	45,5	24,5	28	26	132,5

VX 25

Valvola manuale 2 vie, M-F

2 way manual valve, male-female

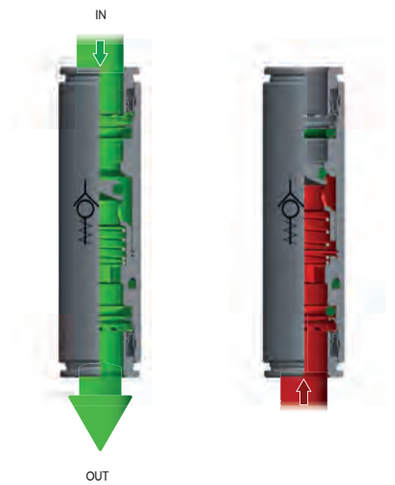


Type	D1	D2	L1	L2	L3	L4	L5	L6	H1	g
25 00 18	G1/8	R1/8	8	19	32,8	17	19	7,5	18	46,4
25 00 14	G1/4	R1/4	9	19	35,9	17	19	11	18	41,5
25 00 38	G3/8	R3/8	10	24,5	37,3	24,5	26	11,5	22	85,7
25 00 12	G1/2	R1/2	11	28,5	43,1	24,5	28	14	26	90,1

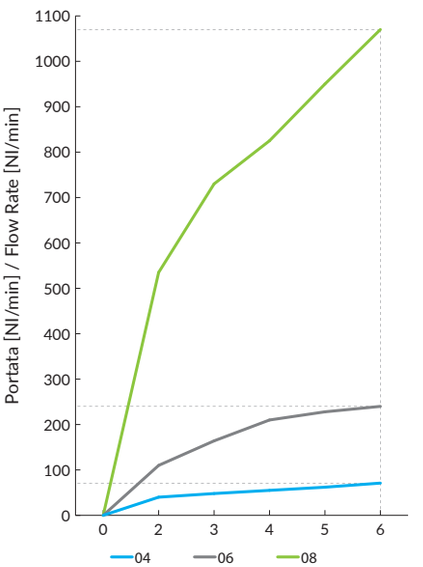
VX 33-T

Valvola di non ritorno Check valve

-20° ÷ 150°C 2÷10 bar 0,2 ba



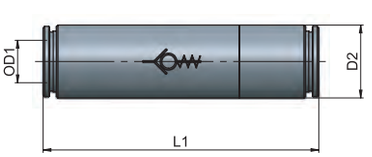
P = 6 bar - Δp = 1bar



Pressione [Bar] / Pressure [Bar]

1	Corpo Body	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Otturatore Valve	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
3	Guarnizioni Seals	FPM conforme FDA FPM compliant with FDA
4	Molla Spring	Acciaio inox AISI 302 Stainless steel AISI 302
5	Raccordo automatico serie MX MX line push-in fitting	

Type	OD1	D2	L1	g
33 04 04 T	4	9	43	-
33 06 06 T	6	12	52	-
33 08 08 T	8	14	53	-



Queste valvole permettono il passaggio dell'aria in un unico senso (indicato sul corpo della valvola da una freccia) impedendolo in senso contrario.

The flow is allowed only in one way (the arrow direction engraved on the body) and stopped in the reverse way.

Tubi di collegamento consigliati:
Variabili in funzione del tipo di raccordo collegato al regolatore.

Recommended tubings:
According to the fitting connected to the flow control.

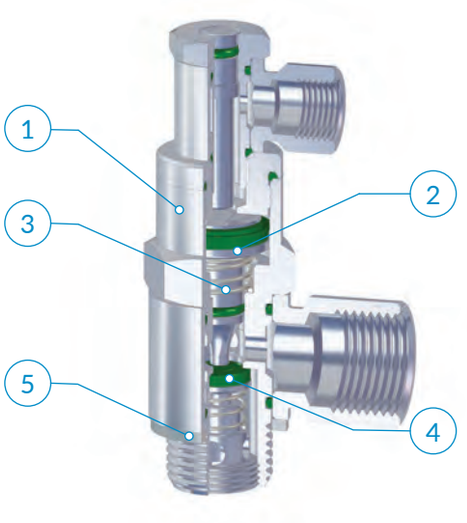
Campi di applicazione:
Impianti pneumatici alimentati con aria filtrata e lubrificata.

Application field:
Pneumatic installations fed with filtered, lubricated air.

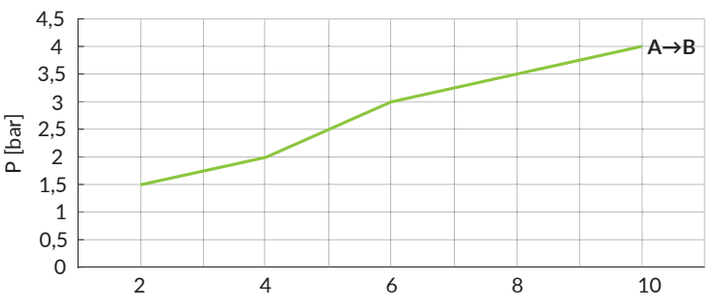
VX 45

Valvola di blocco Pilot operated check valve

-20° ÷ 150°C 10 bar



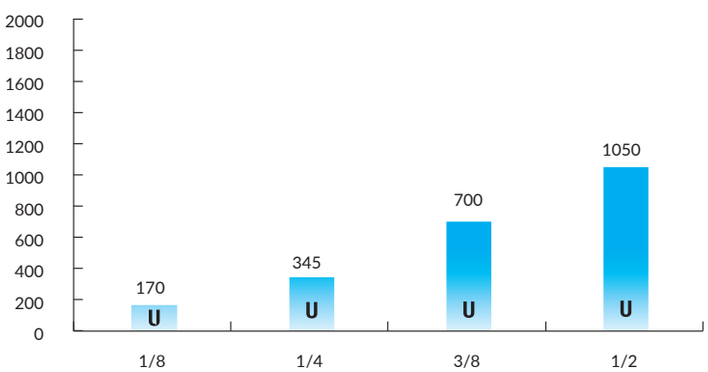
Pressione di Pilotaggio - Pilot pressure P [bar]



Pressione di alimentazione - Inlet pressure [bar]

1	Corpo Body	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Pistone Piston	Acciaio inox AISI 304 Stainless steel AISI 304
3	Molla Spring	Acciaio inox AISI 302 Stainless steel AISI 302
4	Guarnizioni Seals	FPM conforme FDA FPM compliant with FDA
5	Rondelle Gasket	PTFE PTFE

Portata - Flow capacity - Débit - Durchflusswerte [Nl/min] 6 bar - Δp1



Le valvole di blocco pilotate, se montate in coppia su un cilindro, in caso di una diminuzione improvvisa della pressione di comando, assicurano che ogni movimento del cilindro venga impedito.
Mediante il dispositivo di sblocco, è possibile ripristinare manualmente la corsa del pistone, cosa particolarmente utile in fase di messa a punto oppure in mancanza d'aria.

Should a sudden pressure failure happen, if the stop valves are assembled in pairs on the cylinder, the stop valves make sure, that the cylinder piston rapidily stops. By operating the override device, it is possible to reset manually the piston stroke, which is particularly important during a set-up phase or in case of air shortage.

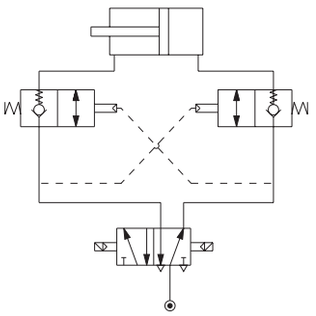
Tubi di collegamento consigliati:
Variabili in funzione del tipo di raccordo collegato al regolatore.

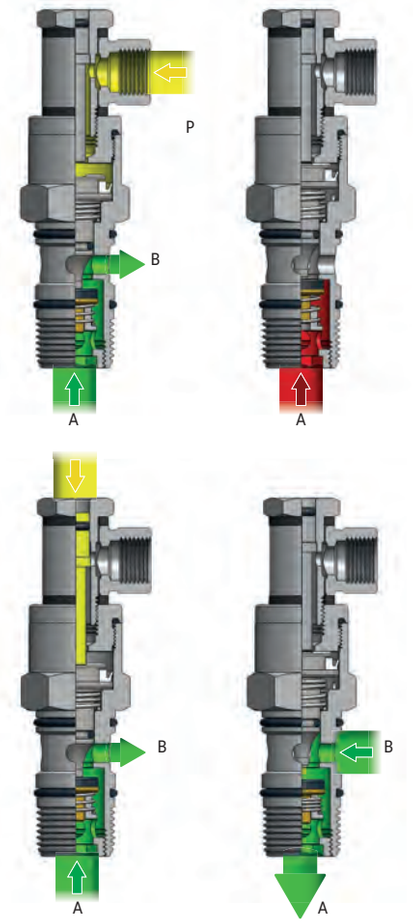
Recommended tubings:
According to the fitting connected to the flow control.

Campi di applicazione:
Impianti pneumatici alimentati con aria filtrata e lubrificata.

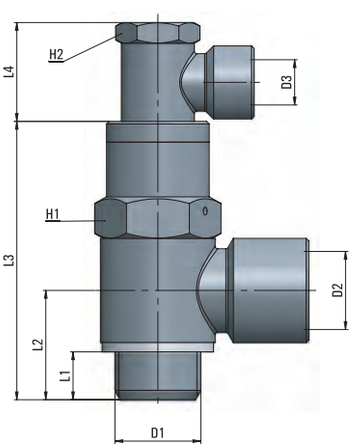
Application field:
Pneumatic installations fed with filtered, lubricated air.

/U = Valvola Unidirezionale - One Way

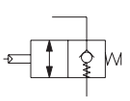




Type	D1	D2	D3	L1	L2	L3	L4	H1	H2	g
45 18 18	**G1/8**	**G1/8**	**M5x0,8**	6	15,5	42	20,5	13	8	55,1
45 14 14	**G1/4**	**G1/4**	**M5x0,8**	8	18,5	46,5	20,5	17	8	85,2
45 38 38	**G3/8**	**G3/8**	**G1/8**	9	21	53,5	19	21	14	142,2
45 12 12	**G1/2**	**G1/2**	**G1/8**	10,5	24,5	61,5	19	25	14	222,6



Disponibile nelle versioni:
Available as:



.../U

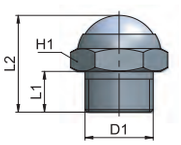
VX 11

	Corpo Body	Silenziatore Muffler		
VX11	Acciaio inox AISI 304 Stainless steel AISI 304	Acciaio inox AISI 304 Stainless steel AISI 304	0 ÷ 12 bar	-20°C ÷ 150°C

VX 11

Silenziatore con filo in acciaio inox

Air muffler with stainless steel wire



NSF COMPONENT

Type	D1	L1	L2	H1	g
11 00 18	G1/8	6	15	13	5,5
11 00 14	G1/4	8	18	16	10,0
11 00 38	G3/8	8	19	19	14,6
11 00 12	G1/2	9	22	24	21,5

cmatic®
PNEUMATIC FITTINGS

GX LINE

IT

Innesti Rapidi in Acciaio Inox 316L

Innesti rapidi in acciaio INOX.

EN

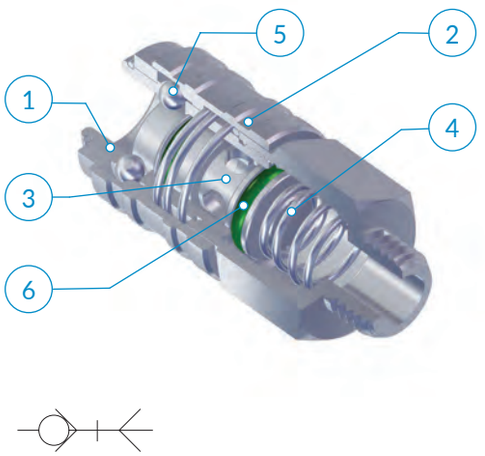
316L Stainless Steel Couplings

Stainless steel quick couplings.

GX 10

Innesto rapido multipresa in inox Stainless steel multi socket quick coupling

-20° ÷ 150°C 15 bar



1	Corpo Body	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Ghiera di commando Command sleeve	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
3	Otturatore Valve	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
4	Molle Springs	Acciaio inox AISI 302 Stainless steel AISI 302
5	Sfere Balls	Acciaio inox AISI 420 Stainless steel AISI 420
6	Guarnizioni Seals	FPM conforme FDA FPM compliant with FDA
i	Innesti Plugs	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)

Campi di applicazione:
Impianti pneumatici

Application fields:
Pneumatic circuits

Intercambiabilità con i profili Suitable with following plugs profiles		Portata Flow rate Nl/min (6 bar - Δp = 1bar)
	Profilo Europeo European Profile	820
	Profilo ISO 6150 B ISO 6150 B Profile	715
	Profilo Svedese Standard Swedisch Profile	725
	Profilo Italiano Standard Italian Profile	670
	Profilo MIL C4109 MIL C4109 Profile	715
	Profilo ARO 210 ARO 210 Profile	705

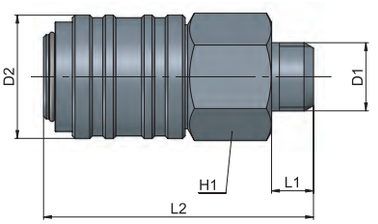
Scala 1:1 - Scale 1:1

GX 10-11

Innesto rapido con filetto maschio

Male coupling

Type	D1	D2	L1	L2	H1	g
11 00 14	G1/4	23,5	8	51,5	21	87,8
11 00 38	G3/8	23,5	9	51,5	21	86,7

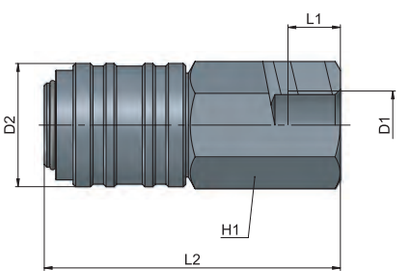


GX 10-12

Innesto rapido con filetto femmina

Female coupling

Type	D1	D2	L1	L2	H1	g
12 00 14	G1/4	23,5	10	56.5	21	110,9
12 00 38	G3/8	23,5	10	58	21	106,3

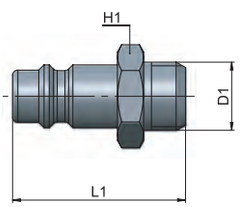


GX 10-20

Innesto con filetto maschio,profilo europeo

Male plug according to european profile

Type	D1	L1	H1	g
20 00 14	G1/4	33	17	20,5
20 00 38	G3/8	33	21	30,4

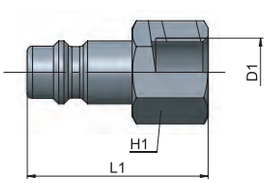


GX 10-21

Innesto con filetto femmina, profilo europeo

Female plug according to european profile

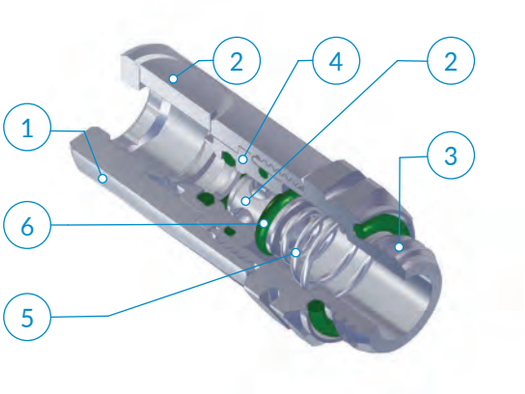
Type	D1	L1	H1	g
21 00 14	G1/4	34.5	17	23,6
21 00 38	G3/8	35	21	31,7
21 00 12	G1/2	38	24	39,3

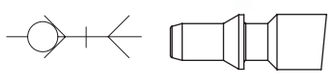


GX 30

Innesto rapido a pulsante profilo ISO 6150 C-8 Push-Button coupling according to ISO 6150 C-8

-20° ÷ 150°C | 15 bar | 3 mm | 345 Nl/min (6 bar - Δp = 1bar)





Profilo ISO 6150 C-8
ISO 6150 C-8 Profile

1	Corpo Body	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Pulsante e otturatore Button and valve	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
3	Vite Thread	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
4	Bussola Cartridge	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
5	Molle Springs	Acciaio inox AISI 302 Stainless steel AISI 302
6	Guarnizioni Seals	FPM conforme FDA FPM compliant with FDA
i	Innesti Plugs	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)

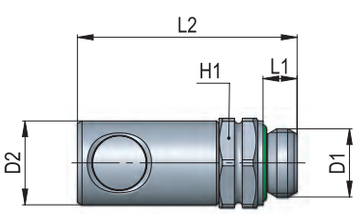
Campi di applicazione:
Impianti pneumatici

Application fields:
Pneumatic circuits

GX 30-10

Innesto rapido con filetto maschio

Male coupling

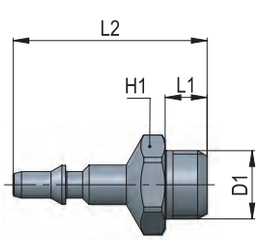


Type	D1	D2	L1	L2	H1	g
10 00 18	G1/8	16	5	41	17	-
10 00 14	G1/4	16	6,5	41,9	17	51,4

GX 30-20

Innesto con filetto maschio

Male plug



Type	D1	L1	L2	H1	g
20 00 18	G1/8	7	35	14	-
20 00 14	G1/4	8	37	17	18,2

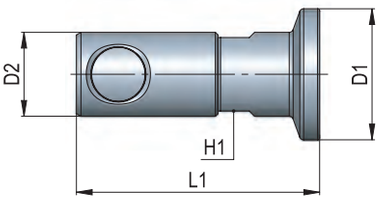
GX 30-10 XT

Innesto rapido, profilo ISO 6150-C 8 DN3 con attacco Clamp

Clamp to quick coupling ISO 6150 C-8 DN3 profile

Type	D1	D2	L1	H1	g ⚖
30-10 00 XT D25	25	16	46,4	14	57,6

Surface finishing of the Clamp side: **SF1 Class**



NSF COMPONENT

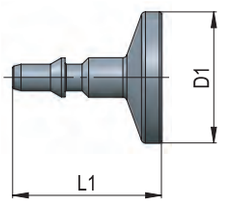
GX 30-20 XT

Innesto rapido, profilo ISO6150 C-3 DN3 con attacco clamp

Clamp to plug, ISO 6150 C-8 DN3

Type	D1	L1	g ⚖
30-20 00 XT D25	25	28,4	20,0

Surface finishing of the Clamp side: **SF1 Class**

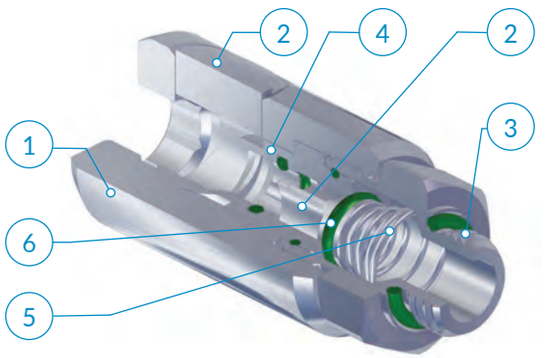


NSF COMPONENT

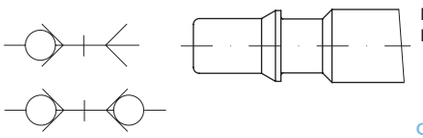
GX 31

Innesto rapido a pulsante profilo ISO 6150 C-10 Push-Button coupling according to ISO 6150 C-10

-20° ÷ 150°C | 15 bar | 3 mm | 345 Nl/min (6 bar - Δp = 1bar) | 345 Nl/min (6 bar - Δp = 1bar)



1	Corpo Body	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
2	Pulsante e otturatore Button and valve	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
3	Vite Thread	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
4	Bussola Cartridge	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)
5	Molle Springs	Acciaio inox AISI 302 Stainless steel AISI 302
6	Guarnizioni Seals	FPM conforme FDA FPM compliant with FDA
i	Innesti Plugs	Acciaio inox AISI 316L (1.4404) Stainless steel AISI 316L (1.4404)



Profilo ISO 6150 C-10
ISO 6150 C-10 Profile

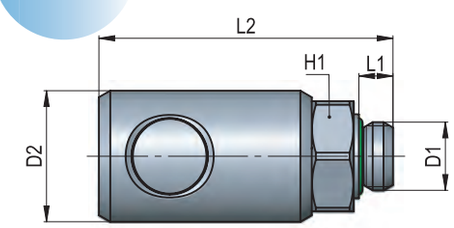
Campi di applicazione:
Impianti pneumatici

Application fields:
Pneumatic circuits

GX 31-10

Innesto rapido con filetto maschio

Male coupling

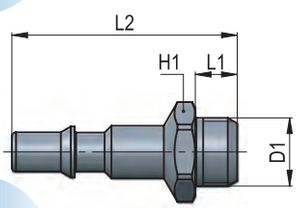


Type	D1	D2	L1	L2	H1	g
10 00 18	G1/8	25	5	55,1	21	-
10 00 14	G1/4	25	6,5	56,1	21	-
10 00 38	G3/8	25	7	56,6	21	-
10 00 12	G1/2	25	8,5	58,6	25	-

GX 31-20

Innesto con filetto maschio

Male plug

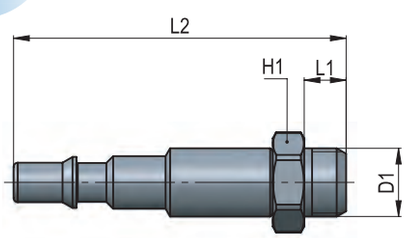


Type	D1	L1	L2	H1	g
20 00 18	G1/8	7	42	14	-
20 00 14	G1/4	8	43	17	-
20 00 38	G3/8	9	44	21	-

GX 31-30

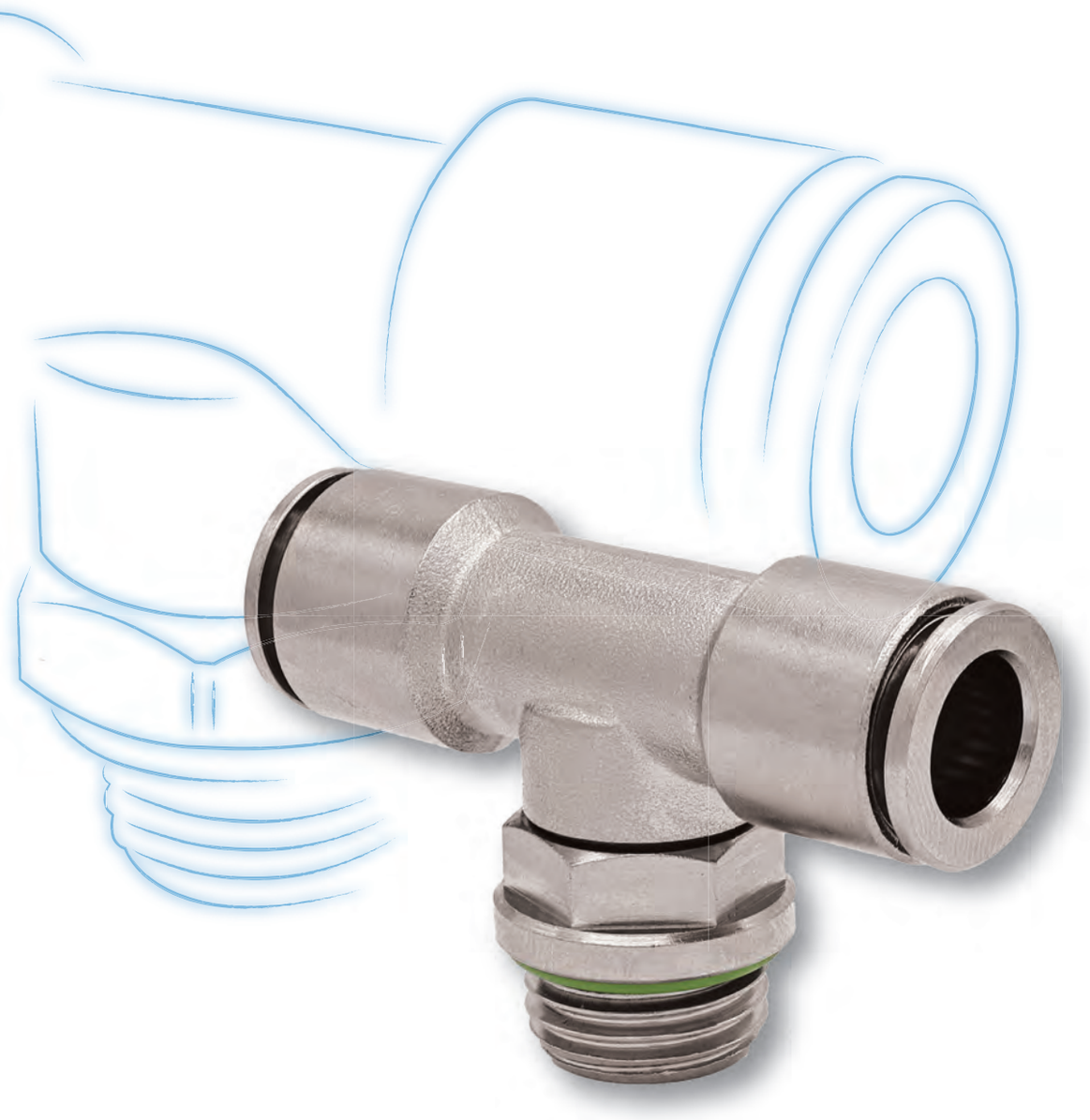
Innesto otturato con filetto maschio

Checked male plug



Type	D1	L1	L2	H1	g
30 00 18 CKD	G1/8	7	61,5	14	-
30 00 14 CKD	G1/4	8	63,5	17	-
30 00 38 CKD	G3/8	9	64,5	21	-

cmatic®
PNEUMATIC FITTINGS



AV LINE

IT

Raccordi Automatici in Ottone per applicazioni Food e High Performance

I raccordi automatici della Serie AV sono realizzati in ottone, nichelato chimicamente. Questa famiglia di prodotti è certificata NSF 169 ed è una valida alternativa per le applicazioni alimentari e dell'industria chimica, grazie ad una buona resistenza agli ambienti corrosivi nonchè alle alte temperature. Tutti i raccordi della Serie AV vengono sottoposti a trattamento superficiale di nichelatura ad elevato tenore di Fosforo certificata NSF 51.

EN

Brass Push-in Fittings for Food and High Performance Applications

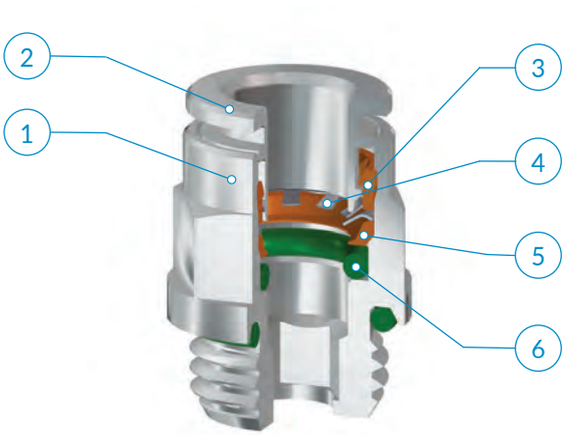
The push-in fittings of the AV line are made of brass, chemical nickel plated. This product family is NSF 169 certified and as such it is a good alternative product for food and chemical industry, given the good resistance in corrosive and high temperature rated environments. All AV fittings are subject to a phosporous chemical nickel-plating treatment. certified NSF 51.

AV Line

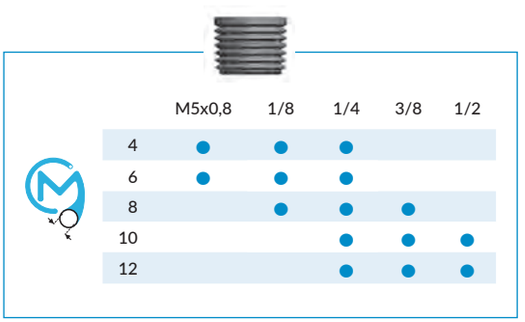
Raccordi Automatici in Ottone per applicazioni Food e High Performance

Brass Push-in Fittings for Food and High Performance Applications

-20° ÷ 150°C | 20 bar | -99 KPa



1	Corpo Body	Ottone UNI EN 12164 CW614N - UNI EN 12165 CW617N, nichelato chimicamente Brass UNI EN 12164 CW614N - UNI EN 12165 CW617N, chemical nickel Plated
2	Anello estrattore Release ring	Ottone UNI EN 12164 CW614N - UNI EN 12165 CW617N, nichelato chimicamente Brass UNI EN 12164 CW614N - UNI EN 12165 CW617N, chemical nickel Plated
3	Anello di ritegno Holding ring	Resina (PEI) Resin (PEI)
4	Pinza aggraffaggio Gripping ring	Acciaio inox AISI 301 Stainless steel AISI 301
5	Anello portapinza Protection ring	Resina (PEI) Resin (PEI)
6	Guarnizioni Seals	FPM conforme FDA FPM, FDA compliant



	M5x0,8	1/8	1/4	3/8	1/2
4	●	●	●		
6	●	●	●		
8		●	●	●	
10			●	●	●
12			●	●	●

Per applicazioni che prevedono l'uso di vapore, rivolgersi al nostro personale tecnoco-commerciale
For steam applications, please contact our sales engineering team.

Tubi di collegamento consigliati:
PA11, PA12, PA6, Polietilene PE, Poliuretano PU (98 Shore A)

Tolleranze accettabili sui tubi:
+/– 0,07 mm fino a Ø 10 mm
+/– 0,1 mm da Ø 12 a Ø 14 mm

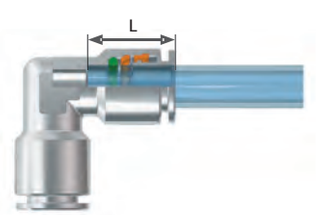
Campi di applicazione:
Impianti pneumatici

Recommended tubings:
PA11, PA12, PA6, Polyethylene PE, Polyurethane PU (98 Shore A)

Acceptable Tolerances on the tubings:
+/– 0,07 mm up to Ø 10 mm
+/– 0,1 mm from Ø 12 up to Ø 14 mm

Application fields:
Pneumatic circuits

Profondità di inserimento del tubo



Tubing insertion depth

OD	L
4	13,2
6	16,1
8	16,2
10	18,3
12	19,5

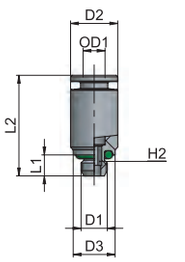
AV 12

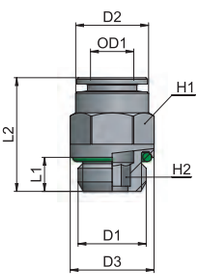
Diritto maschio cilindrico

Parallel straight, male

Type	OD1	D1	D2	D3	L1	L2	H2	g
12 04 M5	4	M5x0,8	9	8	4	19	2,5	4,0
12 06 M5	6	M5x0,8	12	8	4	22,2	2,5	8,5

Type	OD1	D1	D2	D3	L1	L2	H1	H2	g
12 04 18	4	G1/8	9	13	5	16,5	9	3	6,0
12 04 14	4	G1/4	9	16	6,5	18,5	9	3	12,0
12 06 18	6	G1/8	11,9	13,5	5	19,5	12	4	9,0
12 06 14	6	G1/4	11,9	16	6,5	19,5	12	4	12,5
12 08 18	8	G1/8	13,9	14,5	5	23,5	13	6	11,0
12 08 14	8	G1/4	13,9	16	6,5	21,5	14	6	14,0
12 08 38	8	G3/8	13,9	20	7	21	14	6	20,0
12 10 14	10	G1/4	15,9	16	6,5	27,5	15	8	18,0
12 10 38	10	G3/8	15,9	20	7	25	16	8	23,0
12 10 12	10	G1/2	15,9	25	8,5	25,5	16	8	34,5
12 12 14	12	G1/4	18,9	21	6,5	28,5	19	8	22,0
12 12 38	12	G3/8	18,9	21	7	28,5	19	10	25,0
12 12 12	12	G1/2	18,9	25	8,5	26,5	19	10	33,0



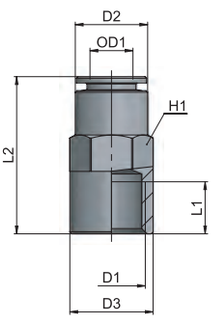


AV 13

Diritto femmina

Female straight

Type	OD1	D1	D2	D3	L1	L2	H1	g
13 04 18	4	G1/8	9	13	7	23,5	9	10,0
13 06 18	6	G1/8	11,9	14	7	26	12	15,7
13 06 14	6	G1/4	11,9	16	10	30	12	19,0
13 08 18	8	G1/8	13,7	16,2	7	26	14	18,0
13 08 14	8	G1/4	13,9	16	10	30	14	22,0
13 10 14	10	G1/4	15,9	18,5	10	32	16	24,4

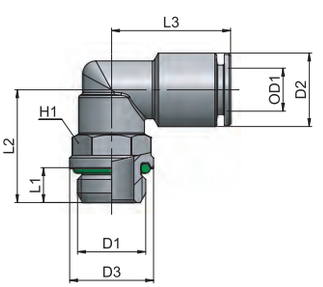


AV 16

Gomito maschio cilindrico girevole

Parallel swivelling elbow fitting, male

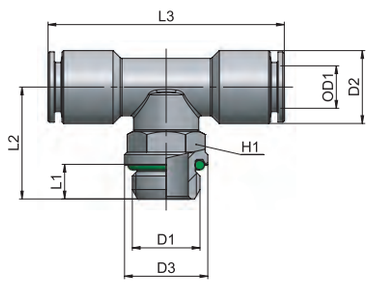
Type	OD1	D1	D2	D3	L1	L2	L3	H1	g
16 04 M5	4	M5x0,8	9,1	10	4	14	17,5	9	8,5
16 04 18	4	G1/8	9,1	14,5	5	18,2	19,5	13	16,0
16 04 14	4	G1/4	9,1	16	6,5	21,7	19,5	13	19,5
16 06 M5	6	M5x0,8	12	10	4	14	20,5	9	12,0
16 06 18	6	G1/8	12	14,5	5	18,2	22	13	19,0
16 06 14	6	G1/4	12	16	6,5	21,7	22	13	22,0
16 08 18	8	G1/8	14	14,5	5	18	22,5	13	22,0
16 08 14	8	G1/4	14	16	6,5	21,5	22,5	13	24,0
16 08 38	8	G3/8	14	20	7	25,5	23	16	36,5
16 10 14	10	G1/4	16	18	6,5	22	26	16	33,0
16 10 38	10	G3/8	16	20	7	25,5	26	16	38,0
16 10 12	10	G1/2	16	25	8,5	27,5	26	16	43,2
16 12 14	12	G1/4	19	22,5	6,5	25,5	28,5	20	56,5
16 12 38	12	G3/8	19	22,5	7	26	28,5	20	55,5
16 12 12	12	G1/2	19	25	8,5	30,5	28,5	20	63,0



AV 21

T centrale maschio cilindrico girevole

Swivelling T fitting, parallel

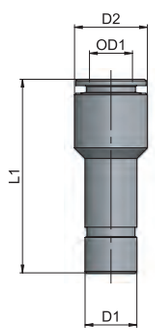


Type	OD1	D1	D2	D3	L1	L2	L3	H1	g
21 04 18	4	G1/8	9,1	14,5	5	18,2	39	13	20,2
21 04 14	4	G1/4	9,1	16	6,5	21,7	39	13	23,9
21 06 18	6	G1/8	12	14,5	5	18	44	13	25,2
21 06 14	6	G1/4	12	16	6,5	21,5	44	13	29,1
21 08 18	8	G1/8	14	14,5	5	18	45	13	30,7
21 08 14	8	G1/4	14	16	6,5	21,5	45	13	34,1
21 08 38	8	G3/8	14	20	7	25,5	46	16	46,4
21 10 14	10	G1/4	16	18	6,5	22	52	16	44,4
21 10 38	10	G3/8	16	20	7	25,5	52	16	49,7
21 12 38	12	G3/8	19	22,5	7	26	57	20	75,3
21 12 12	12	G1/2	19	25	8,5	30,5	57	20	82,0

AV 25

Riduzione

Reducer

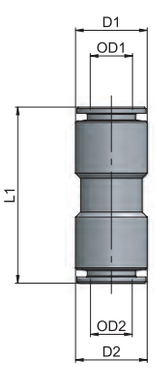


Type	OD1	D1	D2	L1	g
25 04 06	4	6	9	33,5	7,0
25 06 08	6	8	12	35	11,5
25 08 10	8	10	14	37	15,0
25 10 12	10	12	16	42	20,3

AV 26

Giunzione intermedia

Union



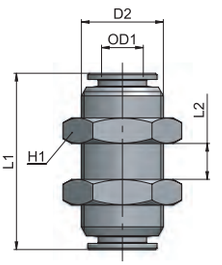
Type	OD1	OD2	D1	D2	L1	g
26 04 04	4	4	9	9	28	6,5
26 06 06	6	6	12	12	33,6	14,6
26 06 04	6	4	12	12	31	15,2
26 08 08	8	8	14	14	34	17,5
26 08 06	8	6	14	14	34	21,0
26 10 10	10	10	16	16	38,6	22,5
26 10 08	10	8	16	16	36,5	25,2
26 12 12	12	12	19	19	41	25,5

AV 27

Giunzione intermedia passaparete

Bulkhead union

Type	OD1	D2	L1	L2	H1	g
27 04 04	4	M12x1	28	11	16	24,0
27 06 06	6	M14x1	34	16	18	34,5
27 08 08	8	M16x1	34	16	20	40,0
27 10 10	10	M18x1	39	19	22	51,0
27 12 12	12	M20x1	41	20	24	59,5

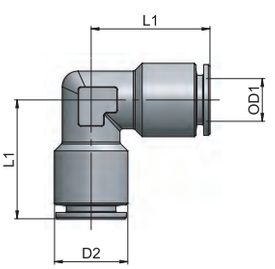


AV 28

Gomito intermedio

Union elbow

Type	OD1	D2	L1	g
28 04 04	4	9	17,5	8,5
28 06 06	6	12	20,5	16,5
28 08 08	8	14	22,5	22,5
28 10 10	10	16	25	28,5
28 12 12	12	19	26,5	43,5

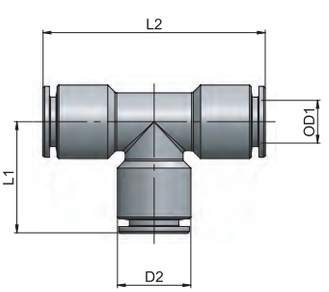


AV 29

T intermedio

Union T

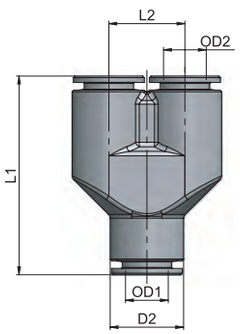
Type	OD1	D2	L1	L2	g
29 04 04	4	9	17,5	35	11,0
29 06 06	6	12	20	40	22,0
29 08 08	8	14	21	42	28,0
29 10 10	10	16	24,5	49	37,5
29 12 12	12	19	26	52	53,0



AV 37

Y

Y fitting

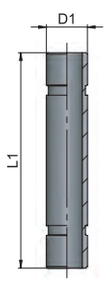


Type	OD1	OD2	D2	L1	L2	g
37 04 04	4	4	9	29,5	9,5	13,5
37 06 06	6	6	12	36,5	12,5	32,0
37 08 08	8	8	14	37,5	14,5	42,5
37 10 10	10	10	16	44,5	16,5	62,7
37 12 12	12	12	19	49	19,5	95,8

AV 39

Prolunga

Extention piece

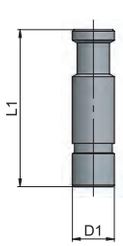


Type	D1	L1	g
39 00 04	4	35	2,7
39 00 06	6	40	5,1
39 00 08	8	42	8,0
39 00 10	10	50	11,8
39 00 12	12	53	15,3
39 00 14	14	54	18,8

AV 40

Tappo

Plug

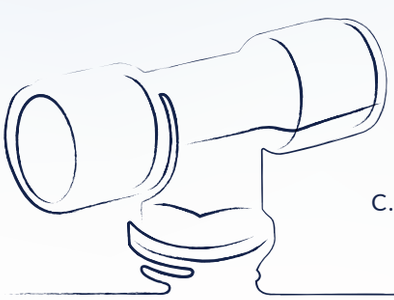


Type	D1	L1	g
40 00 04	4	25	2,3
40 00 06	6	25	3,7
40 00 08	8	30	7,2
40 00 10	10	35	11,8
40 00 12	12	40	18,2

Release date
September 2025

cmatic®

PNEUMATIC FITTINGS



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