



CARATTERISTICHE TECNICHE
 TECHNICAL CHARACTERISTICS
 TECHNISCHE ANGABEN
 CARACTÉRISTIQUES TECHNIQUES
 CARACTERÍSTICAS TÉCNICAS
 CARACTERÍSTICAS TÉCNICAS



Norma di Riferimento
 Reference standard
 Entspricht der Norm
 Norme de référence
 Normativa de referencia
 Norma de referência

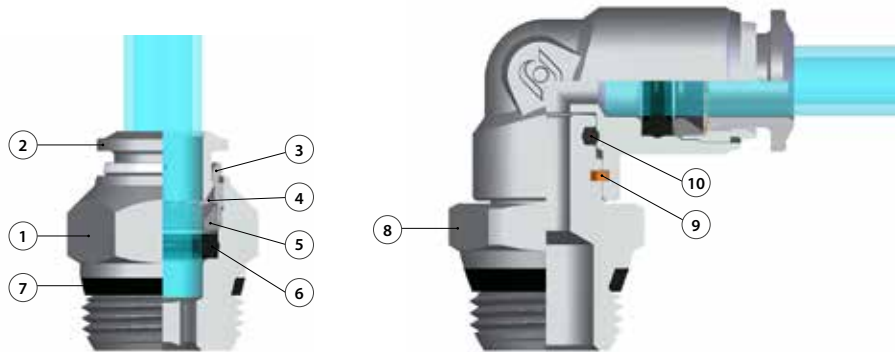
1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
 2014/68/UE

ISO
 14743:2004

**SILICON
 FREE**



Materiali e Componenti	IT	Component Parts and Materials	GB	Komponenten und Materialien	DE
1 Corpo in ottone nichelato		1 Nickel-plated brass Body		1 Körper Messing vernickelt	
2 Spintore sgancio tubo in Ottone nichelato		2 Nickel-plated brass Collet		2 Rohr Lösering Messing vernickelt	
3 Capsula in ottone nichelato		3 Nickel-plated brass Capsule		3 Haltering Messing vernickelt	
4 Pinza d'aggraffaggio in acciaio inox AISI 301		4 Steel AISI 301 Clamping washer		4 Zahnscheibe Edelstahl AISI 301	
5 Anello di posizionamento in tecnopolimero		5 Technopolymeric positioning ring		5 Positionierring Technopolymer	
6 Guarnizione a labbro in NBR (FKM o EPDM a richiesta)		6 NBR molded seal (if requested FKM - EPDM)		6 Lippendichtung NBR (FKM - EPDM auf Anfrage)	
7 Guarnizione filetto in NBR (FKM o EPDM a richiesta)		7 NBR Thread packing (if requested FKM - EPDM)		7 Gewindeabdichtung NBR (FKM - EPDM auf Anfrage)	
8 Basetta Filettata in ottone nichelato		8 Base Threaded Nickel Plated Brass		8 Gewindebasis Messing vernickelt	
9 Seeger		9 Seeger		9 Seeger	
10 Guarnizione in NBR (FKM o EPDM a richiesta)		10 NBR molded seal (if requested FKM - EPDM)		10 Lippendichtung NBR (FKM - EPDM auf Anfrage)	

Matériaux et Composants	FR	Materiales y Componentes	ES	Materials e Componentes	PT
1 Corps: Laiton nickelé		1 Cuerpo en latón niquelado		1 Corpo em latão niquelado	
2 Poussoir: Laiton nickelé		2 Anillo de extracción tubo en latón niquelado		2 Anilha de liberação em latão niquelado	
3 Capsule de retenue: Laiton nickelé		3 Cápsula en latón niquelado		3 Cápsula de latão niquelado	
4 Rondelle d'accrochage: AISI 301		4 Pinza de agarre en acero inox AISI 301		4 Pinça de travamento em aço-inox AISI 301	
5 Anneau de positionnement: Technopolymère		5 Anillo de posicionamiento en tecnopolímero		5 Anel de posicionamento em tecnopolímero	
6 Joint à lèvres: NBR (FKM - EPDM sur demande)		6 Junta de forma en NBR (FKM y EPDM bajo pedido)		6 Vedação em NBR (FKM ou EPDM sob encomenda)	
7 Joint d'étanchéité du filetage: NBR (FKM - EPDM sur demande)		7 Junta rosca en NBR (FKM y EPDM bajo pedido)		7 Vedação da rosca em NBR (FKM ou EPDM sob encomenda)	
8 Bague de sécurité en laiton nickelé		8 Base rosca en latón niquelado		8 Base rosca en latão niquelado	
9 Seeger		9 Seeger		9 Seeger	
10 Joint en NBR (FKM - EPDM sur demande)		10 Junta en NBR (FKM y EPDM bajo pedido)		10 Vedação em NBR (FKM ou EPDM sob encomenda)	



Pressioni

Pressures

Druckbereich

Pressions

Presiones

Pressões

- 0.99 bar (-0.099 MPa)

20 bar (2.0 MPa)



Fluidi compatibili

Aria compressa / Vuoto / Acqua / Vapore

Fluids

Compressed air / Vacuum / Water / Steam

Geeignete Medien

Druckluft / Vakuum / Wasser / Dampf

Fluides compatibles

Air comprimé / Vide / Eau / Vapeur

Fluidos compatibles

Aire comprimido / Vacío / Agua / Vapor

Fluidos compatíveis

Ar comprimido / Vácuo / Água / Vapor



Temperature

Temperatures

Temperatur

Températures

Temperaturas

Temperaturas

- 20 °C

+ 80 °C

EPDM

FKM

- 40 °C

- 15 °C

+ 130 °C

+ 130 °C

Архангельск (8182)63-90-72
 Астана (7172)727-132
 Астрахань (8512)99-46-04
 Барнаул (3852)73-04-60
 Белгород (4722)40-23-64
 Брянск (4832)59-03-52
 Владивосток (423)249-28-31
 Волгоград (844)278-03-48
 Вологда (8172)26-41-59
 Воронеж (473)204-51-73
 Екатеринбург (343)384-55-89
 Иваново (4932)77-34-06

Ижевск (3412)26-03-58
 Иркутск (395)279-98-46
 Казань (843)206-01-48
 Калининград (4012)72-03-81
 Калуга (4842)92-23-67
 Кемерово (3842)65-04-62
 Киров (8332)68-02-04
 Краснодар (861)203-40-90
 Красноярск (391)204-63-61
 Курск (4712)77-13-04
 Липецк (4742)52-20-81
 Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13
 Москва (495)268-04-70
 Мурманск (8152)59-64-93
 Набережные Челны (8552)20-53-41
 Нижний Новгород (831)429-08-12
 Новокузнецк (3843)20-46-81
 Новосибирск (383)227-86-73
 Омск (3812)21-46-40
 Орел (4862)44-53-42
 Оренбург (3532)37-68-04
 Пенза (8412)22-31-16
 Казахстан (772)734-952-31

Пермь (342)205-81-47
 Ростов-на-Дону (863)308-18-15
 Рязань (4912)46-61-64
 Самара (846)206-03-16
 Санкт-Петербург (812)309-46-40
 Саратов (845)249-38-78
 Севастополь (8692)22-31-93
 Симферополь (3652)67-13-56
 Смоленск (4812)29-41-54
 Сочи (862)225-72-31
 Ставрополь (8652)20-65-13
 Таджикистан (992)427-82-92-69

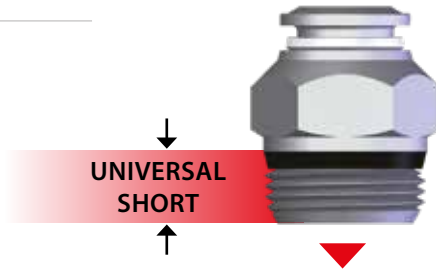
Сургут (3462)77-98-35
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 Тула (4872)74-02-29
 Тюмень (3452)66-21-18
 Ульяновск (8422)24-23-59
 Уфа (347)229-48-12
 Хабаровск (4212)92-98-04
 Челябинск (351)202-03-61
 Череповец (8202)49-02-64
 Ярославль (4852)69-52-93



Filettatura IT Gas conica "UNIVERSAL SHORT". Gas cilindrica UNF conforme ANSI B1.1 NPTF conforme ANSI B1.20.5	Threads GB "UNIVERSAL SHORT" Tapered thread. Parallel gas UNF conformity with ANSI B1.1 NPTF conformity with ANSI B1.20.5	Gewindearten DE Konisches Gewinde "UNIVERSAL SHORT". Zylindrisches Gewinde UNF nach Norm ANSI B1.1 NPTF nach Norm ANSI B1.20.5
Filetages FR Filetage conique "UNIVERSAL SHORT". Filetage cylindrique UNF conforme ANSI B1.1 NPTF conforme ANSI B1.20.5	Roscas ES Gas cónica "UNIVERSAL SHORT". Gas cilindrica UNF conforme ANSI B1.1 NPTF conforme ANSI B1.20.5	Roscas PT Gas cónica "UNIVERSAL SHORT". Gas paralela UNF conforme ANSI B1.1 NPTF conforme ANSI B1.20.5



UNIVERSAL SHORT



 NPT NPTF Conica Tapered Konisch Conique Cónica Cônica	 ISO 7 BSPP Cilindrica Paralell Zylindrisch Cylindrique Cilíndrica Paralela	 ISO 7 BSPT PT Conica Tapered Konisch Conique Cónica Cônica	 ISO 228 BSP PF Cilindrica Paralell Zylindrisch Cylindrique Cilíndrica Paralela
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"UNIVERSAL SHORT" IT La filettatura conica "UNIVERSAL SHORT" è progettata per soddisfare le seguenti caratteristiche: <ul style="list-style-type: none"> • ridurre la lunghezza d'ingombro; • ridurre la chiave rispetto ad alcuni raccordi con filettature cilindriche; • consentire l'accoppiamento con diversi standard di filettature femmina sia coniche che cilindriche. 	"UNIVERSAL SHORT" GB The "UNIVERSAL SHORT" taper thread has been designed to offer the following advantages to the users: <ul style="list-style-type: none"> • reduced overall length; • smaller hex dimensions compared to the parallel threads; • to allow the assembly with different female threads both taper as well as parallel. 	"UNIVERSAL SHORT" DE Das konische Gewinde "UNIVERSAL SHORT" ist so konzipiert, dass folgende Vorteile erzielt werden: <ul style="list-style-type: none"> • Reduzierung der Länge des Gewindes - kürzere Montagezeit; • Reduzierung der Schlüsselweite im Vergleich von Verschraubungen mit zylindrischen Gewinden - geringerer Lochabstand; • Ermöglicht den Einsatz in verschiedene Gewindearten, sowie in konische- und zylindrische Innengewinde.
"UNIVERSAL SHORT" FR Le filetage conique "UNIVERSAL SHORT" a été conçu pour satisfaire les exigences suivantes: <ul style="list-style-type: none"> • réduire la longueur d'encombrement; • réduire les dimensions hexagonales par rapport au filetage cylindrique; • permettre le montage avec divers taraudages standards soit coniques soit cylindriques. 	"UNIVERSAL SHORT" ES La rosca cónica "UNIVERSAL SHORT" ha sido proyectada para satisfacer las siguientes características: <ul style="list-style-type: none"> • reducir la longitud; • reducir la llave respecto a algunos racores con rosca cilíndrica; • permitir el acoplamiento con diferentes standard de roscas hembra sean cónicas o cilíndricas. 	"UNIVERSAL SHORT" PT A rosca cónica "UNIVERSAL SHORT" é projetada para satisfazer às seguintes características: <ul style="list-style-type: none"> • reduzir o comprimento da conexão; • reduzir o dimensional com relação às roscas paralelas; • permitir o acoplamento da conexão a diferentes tipos de rosca fêmea, sejam elas cónicas ou paralelas.



Inclinate
Inclined
Geneigt
Incliné
Inclinada
Inclinadas



Concave
Concave
Konkav
Concave
Cóncava
Côncavas



Convexe
Convex
Konvex
Convexe
Convexa
Convexas

IT Consentire una completa tenuta anche su superfici non perfettamente piane, concave, convesse o inclinate, con diversi smussi o raggi.	GB To ensure the right tightening also with surfaces not perfectly flat, without spot-facing, concave convex and with different kinds of chamfers or radius.	DE Eine vollständige Abdichtung ist auch auf unebenen Flächen, wie geneigt, konkav oder konvex und mit unterschiedlichen Radien oder Fasen gewährleistet.
FR Pour permettre une parfaite étanchéité même sur surfaces non planes, concaves, convexas ou inclinées et avec différents chanfreins ou rayons.	ES Consentir una completa estanqueidad incluso en superficies no perfectamente planas, cóncavas, convexas o inclinadas, con diferentes ángulos o radios.	PT Permite um aperto correto em superfícies não perfeitamente planas, côncavas, convexas ou inclinadas, com diferentes chanfros ou raios.



Coppia di serraggio

Torque specifications

Angaben Drehmoment

Couple de serrage

Par de apriete

Especificações de Torque



UNF

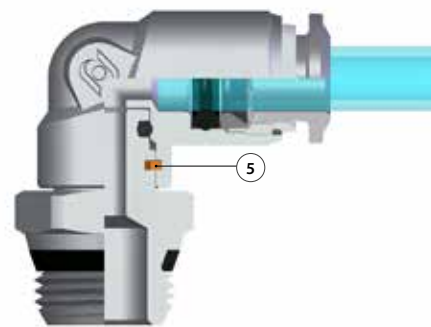
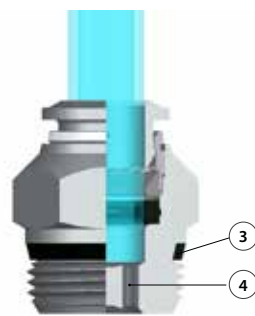
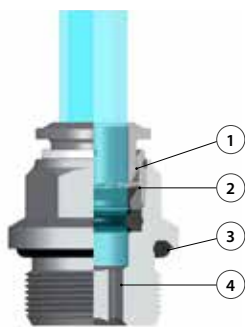


"UNIVERSAL SHORT"

I valori di rottura possono variare in base all'articolo
 Breaking values may vary according to the item
 Die maximal werte dienen nur zu informationszwecken
 Les valeurs maximales sont présentées à titre indicatif
 Los valores de rotura pueden variar en función del artículo
 Los valores de força pode variar em função artigo

MISURA MEASURE GRÖSSE DIMENSIONS MEDIDA MEDIDA	COPPIA CONSIGLIATA Nm RECOMMENDED TORQUE Nm EMPOFOHLENES DREHMOMENT Nm COUPLE DE SERRAGE Nm PAR ACONSEJADO Nm TORQUE RECOMENDADO Nm	COPPIA DI ROTTURA Nm BREAKING TORQUE Nm ABSCHERDREHMOMENT Nm COUPLE DE RUPTURE Nm PAR DE ROTURA Nm BINÁRIO ROMPER Nm
10/32	0,8	3,2

MISURA MEASURE GRÖSSE DIMENSIONS MEDIDA MEDIDA	COPPIA MINIMA CONSIGLIATA Nm RECOMMENDED MINIMUM TORQUE Nm EMPOFOHLENES DREHMOMENT Nm COUPLE DE SERRAGE Nm PAR MÍNIMO ACONSEJADO Nm TORQUE MÍNIMO RECOMENDADO Nm	COPPIA MASSIMA CONSIGLIATA Nm RECOMMENDED MAX TORQUE Nm ABSCHERDREHMOMENT Nm COUPLE DE RUPTURE Nm PAR MÁXIMO ACONSEJADO Nm TORQUE MÁXIMA RECOMENDADO Nm
1/8	5	7
1/4	5	7
3/8	5	7
1/2	5	7



Vantaggi

IT

- 1 La pinza in acciaio inox garantisce il perfetto aggiraffaggio di tubi di qualsiasi materiale senza danneggiarne la superficie. Il collegamento tra tubo e raccordo assicura una tenuta totale anche in condizioni di urti e vibrazioni.
- 2 La particolare geometria della guarnizione permette inoltre l'utilizzo dei raccordi anche con il vuoto.
- 3 Tutte le filettature di questa serie sono state dotate di elementi di tenuta che permettono l'immediato utilizzo dei raccordi riducendo notevolmente i tempi di installazione.
- 4 Tutti i raccordi dritti possono essere montati anche con chiave esagonale ed è possibile utilizzarli anche in spazi molto ridotti.
- 5 Raccordo orientabile con anello di sicurezza interno. Garantisce maggiore durata alla rotazione e trazione.

Advantages

GB

- 1 The washer is made in stainless steel ensures the perfect tube clamping with every kinds of materials without damage the surface. The connection between the tube and the fitting ensure a total tightness even in severe conditions such as impact and vibrations.
- 2 The particular geometric shape of the seal ensure the perfect tightness even with vacuum.
- 3 All of threads from this range have been equipped with tightening parts which allow the direct assembly of the fittings, reducing the installation time.
- 4 All the straight fittings can be assembled also with Allen wrench and it is possible to use them in reduced spaces.
- 5 Orienting fitting with safety ring inside. Improved durability to the rotation and traction.

Vorteile

DE

- 1 Konisches Gewinde "kurz" Die Zahnscheibe sorgt für eine perfekte Halterung des Rohres ohne die Oberfläche zu beschädigen. Die Dichtigkeit zwischen Rohr und Verschraubung ist auch bei Erschütterungen und Vibrationen gewährleistet.
- 2 Die besondere Geometrie der Dichtung ermöglicht auch die Anwendung der Verschraubungen in Verbindung mit Vakuum.
- 3 Alle Verschraubungen in dieser Serie sind mit Gewindeabdichtungen ausgestattet, die den sofortigen Einsatz ermöglichen und daher die Montagezeit stark reduzieren.
- 4 Alle geraden Verschraubungen können auch mit Inbusschlüsseln montiert werden, daher kleiner Lochabstand möglich.
- 5 Flexible Montage mit Sicherungsring innen. Verbesserte Beständigkeit gegenüber der Drehung und Traktions.

Avantages

FR

- 1 La rondelle en acier inoxydable garantit la parfaite tenue du tube quelle que soit la matière et sans l'endommager. La connexion entre le tube et le raccord assure une étanchéité totale même dans des conditions d'impact ou de vibrations.
- 2 La spécificité géométrique du joint permet l'utilisation des raccords avec le vide.
- 3 Tous les filetages de cette série sont équipés d'éléments d'étanchéité qui permettent l'utilisation immédiate des raccords réduisant ainsi le temps d'installation.
- 4 Tous les raccords droits peuvent être aussi montés avec une clé hexagonale pour permettre une utilisation dans des espaces réduits.
- 5 Accessoire de fixation réglable avec anneau de sécurité à l'intérieur. Amélioration de la durée de la rotation et de traction.

Ventajas

ES

- 1 La pinza en acero inoxidable garantiza el perfecto agarre del tubo de cualquier material sin perjudicar la superficie. La conexión entre tubo y racor asegura una estanqueidad total aun en condiciones de impacto o vibración.
- 2 La particular geometría de la junta garantiza una perfecta estanqueidad incluso en vacío.
- 3 Todas las rosas de esta serie están fabricadas con junta de cierre que permite la inmediata utilización del racor reduciendo notablemente el tiempo de instalación.
- 4 Todos los racores rectos pueden montarse también con llave hexagonal y es posible utilizarlos incluso en espacios muy reducidos.
- 5 Montaje ajustable con sistema de seguridad interior. La mejora de la durabilidad a la rotación y tracción.

Vantagens

PT

- 1 A pinça em aço-inox garante o perfeito travamento do tubo de qualquer material sem danificar a superfície do mesmo. A conexão entre o tubo e a conexão assegura uma vedação total também em condições de impactos e vibrações.
- 2 A geometria particular da vedação permite a utilização da conexão também para aplicações com vácuo.
- 3 Todas as rosas desta série são dotadas de elementos de vedação, o que permite a imediata utilização das conexões, reduzindo notavelmente o tempo de instalação.
- 4 Todas as conexões retas podem ser montadas também com chave allenomando possível montagem das mesmas em espaços bem reduzidos.
- 5 Montagem ajustável com anel de segurança dentro. A durabilidade melhorada para a rotação e tração.



Articoli in comune con serie 57000 per tubi metrici - Items in common with series 57000 for metric tubes
 Gleicher Artikel wie in Serie 57000 für metrische Rohre - Article identique avec la série 57000 pour tube métrique
 Artículos en común con la serie 57000 para tubos métricos - Código em comum com a série 57000 para tubos métricos

89000

RACCORDO DIRITTO MASCHIO "UNIVERSAL SHORT"

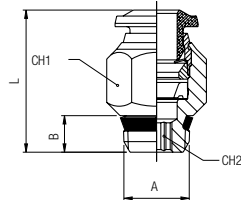
STRAIGHT MALE ADAPTOR "UNIVERSAL SHORT"

GERADE EINSCHRAUBVERSCHRAUBUNG KONISCH "UNIVERSAL SHORT"

RACCORD DROIT MÂLE, CONIQUE "UNIVERSAL SHORT"

RACOR RECTO MACHO CÓNICO "UNIVERSAL SHORT"

CONEXÃO RETA COM ROSCA "UNIVERSAL SHORT"



Code	Tube	A	B	L	CH1	CH2	Pack.
89000 00 019	1/8	10/32	5	19	8	2	10
89000 00 001	1/8	1/8	5.5	16.5	11	2	10
89000 00 002	1/8	1/4	7	18.5	11	2	10
* 89000 00 020	5/32 (4)	10/32	5	21	10	2	10
* 89000 00 003	5/32 (4)	1/8	5.5	18	11	3	10
* 89000 00 004	5/32 (4)	1/4	7	19	14	3	10
89000 00 021	1/4	10/32	5	24.5	13	2	10
89000 00 005	1/4	1/8	6.5	21.5	13	4	10
89000 00 006	1/4	1/4	7	20.5	14	4	10
89000 00 007	1/4	3/8	7.5	23	17	4	10
* 89000 00 008	5/16 (8)	1/8	5.5	24.5	14	5	10
* 89000 00 009	5/16 (8)	1/4	7	22	14	6	10
* 89000 00 010	5/16 (8)	3/8	7.5	23	17	6	10
* 89000 00 022	5/16 (8)	1/2	9	23.5	21	6	10
89000 00 011	3/8	1/8	5.5	27.5	17	6	10
89000 00 012	3/8	1/4	7	27.5	17	5	10
89000 00 013	3/8	3/8	7.5	25.5	17	7	10
89000 00 014	3/8	1/2	9	25.5	21	7	10
89000 00 015	1/2	1/8	5.5	32	20	5	10
89000 00 016	1/2	1/4	7	31	20	7	10
89000 00 017	1/2	3/8	7.5	31	20	9	10
89000 00 018	1/2	1/2	9	31	21	10	10

89010

RACCORDO DIRITTO MASCHIO ESAGONO INCASSATO

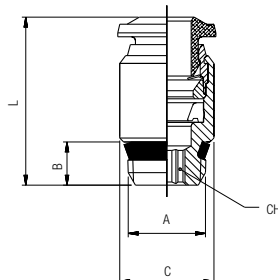
STRAIGHT MALE ADAPTOR WITH EXAGON EMBEDDED

GERADE EINSCHRAUBVERSCHRAUBUNG MIT INNENSECHSKANT

RACCORD DROIT MÂLE, CONIQUE, 6-PANS INTERIEUR

RACOR RECTO MACHO CÓNICO HEXÁGONO INTERIOR

CONEXÃO RETA COM SEXTAVADO INTERNO E ROSCA



Code	Tube	A	B	C	L	CH	Pack.
* 89010 00 001	5/32 (4)	1/8	7.5	11	19	3	10
* 89010 00 002	5/16 (8)	1/8	7.5	14	25.5	5	10
* 89010 00 003	5/16 (8)	1/4	11	14	25	6	10

89030

NPTF

RACCORDO DIRITTO FEMMINA

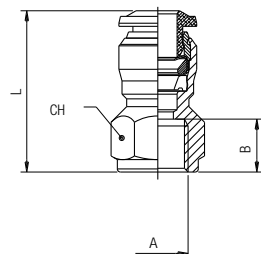
STRAIGHT FEMALE ADAPTOR

AUFSCHRAUBVERSCHRAUBUNG

RACCORD DROIT, TARAUEE

RACOR RECTO HEMBRA

CONEXÃO RETA COM ROSCA FÊMEA

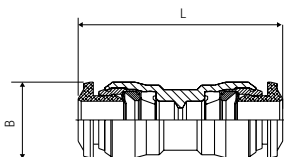


Code	Tube	A(NPTF)	B	L	CH	Pack.
89030 00 001	1/8	1/8	9.5	24	13	10
89030 00 002	1/8	1/4	13.5	29	16	10
89030 00 003	5/32 (4)	1/8	9.5	24.5	13	10
89030 00 004	5/32 (4)	1/4	13.5	29.5	16	10
89030 00 005	1/4	1/8	9.5	26	13	10
89030 00 006	1/4	1/4	13.5	31	16	10
89030 00 007	3/8	1/4	13.5	34.5	18	10
89030 00 008	3/8	3/8	13.5	34.5	20	10

89040

RACCORDO DIRITTO INTERMEDIO

STRAIGHT CONNECTOR
 VERBINDUNGSVERSCHRAUBUNG
 RACCORD UNION DOUBLE
 RACOR RECTO INTERMEDIO
 CONEXÃO RETA TUBO-TUBO

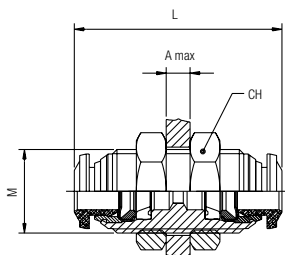


Code	Tube	Tube	L	B	Pack.
89040 00 001	1/8		8.5	26	10
* 57040 00 001	5/32 (4)		10.5	30.5	10
89040 00 003	1/4	5/32 (4)	12.5	33	10
89040 00 004	1/4		12.5	34	10
* 57040 00 008	3/16 (5)		11,5	33	10
* 57040 00 005	5/16 (8)		14.5	36	10
89040 00 006	3/8	1/4	17.5	41	10
89040 00 009	3/8	1/2	20.5	47	10
89040 00 007	3/8		17.5	41	10
89040 00 008	1/2		20.5	47	10

89050

RACCORDO DIRITTO INTERMEDIO DI ATTRAVERSAMENTO

BULKHEAD CONNECTOR
 SCHOTTVERSCHRAUBUNG
 RACCORD TRAVERSÉE DE CLOISON
 RACOR RECTO INTERMEDIO PASATABIQUES
 CONEXÃO PASSA-MURO RETA TUBO-TUBO



Code	Tube	M	L	CH	A max	Pack.
89050 00 001	1/8	M10x1	26	14	5	10
* 57050 00 001	5/32 (4)	M12x1	31.5	17	7	10
89050 00 003	1/4	M14x1	35	17	9.5	10
* 57050 00 003	5/16 (8)	M16x1	37	19	10.5	10
89050 00 005	3/8	M20x1	42	24	12.5	10
89050 00 006	1/2	M22x1	48	26	16.5	10

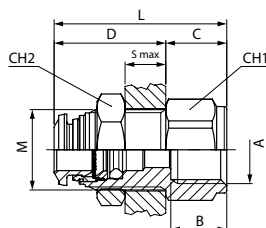
89055

RACCORDO DIRITTO DI ATTRAVERSAMENTO FEMMINA

FEMALE BULKHEAD CONNECTOR
 SCHOTTVERSCHRAUBUNG INNENGEWINDE
 TRAVERSÉE DE CLOISON FEMELLE
 RACOR RECTO INTERMEDIO PASATABIQUES HEMBRA
 CONEXÃO PASSA-MURO RETA FEMEA

New

NPTF



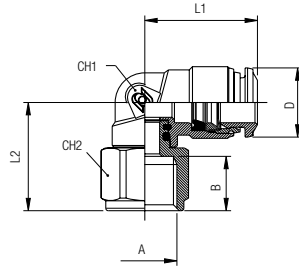
Code	Tube	A NPTF	B	M	S max	CH1	CH2	C	D	L	Pack.
89055 00 001	5/32 (4)	1/8	9.5	M12x1	7	15	17	10	19	29	10
89055 00 009	5/32 (4)	1/4	13.5	M12x1	7	16	17	15	19	34	10
89055 00 002	1/4	1/8	9.5	M14x1	8	16	17	10	21	31	10
89055 00 003	1/4	1/4	13.5	M14x1	8	16	17	15	21	36	10
89055 00 010	1/4	3/8	13.5	M14x1	8	20	17	15	21	36	10
89055 00 004	5/16 (8)	1/8	9.5	M16x1	8	18	19	10	22	32	10
89055 00 005	5/16 (8)	1/4	13.5	M16x1	8	18	19	12	22	34	10
89055 00 011	5/16 (8)	3/8	13.5	M16x1	8	20	19	15	22	37	10
89055 00 006	3/8	3/8	13.5	M20x1	9.5	24	24	14	25.5	39.5	10
89055 00 007	1/2	3/8	13.5	M22x1	10.5	24	26	15	27.5	42.5	10
89055 00 008	1/2	1/2	17.5	M22x1	10.5	24	26	20	27.5	47.5	10

89106

NPTF

RACCORDO A L ORIENTABILE FEMMINA

ORIENTING ELBOW FEMALE ADAPTOR
 AUFSCHRAUB-WINKELSCHRAUBUNG (DREHBAR)
 EQUERRE ORIENTABLE, TARAUEE
 RACOR A L ORIENTABLE HEMBRA
 CONEXÃO EM "L" ORIENTÁVEL COM ROSCA FÊMEA

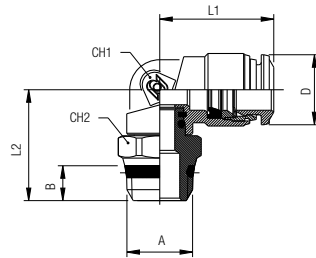


Code	Tube	A(NPTF)	B	L1	L2	CH1	CH2	D	Pack.
89106 00 001	5/32 (4)	1/8	9.5	17.5	17.5	9	13	10	10
89106 00 002	5/32 (4)	1/4	13.5	17.5	20	9	16	10	10
89106 00 003	1/4	1/8	9.5	21.5	19	11	13	12.5	10
89106 00 004	1/4	1/4	13.5	21.5	21.5	11	16	12.5	10
89106 00 005	3/8	1/8	9.5	27	23	13	13	17.5	10
89106 00 006	3/8	1/4	13.5	27	24	16	16	17.5	10

89111

RACCORDO A L ORIENTABILE MASCHIO "UNIVERSAL SHORT"

ORIENTING ELBOW MALE ADAPTOR "UNIVERSAL SHORT"
 WINKELVERSCHRAUBUNG KONISCH (DREHBAR) "UNIVERSAL SHORT"
 EQUERRE ORIENTABLE MÂLE, CONIQUE "UNIVERSAL SHORT"
 RACOR A L ORIENTABLE MACHO "UNIVERSAL SHORT"
 CONEXÃO MACHO EM "L" ORIENTÁVEL COM ROSCA "UNIVERSAL SHORT"

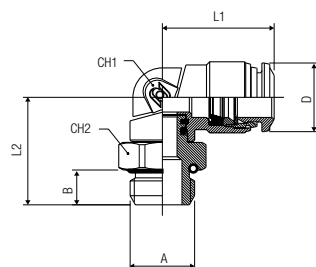


Code	Tube	A	B	L1	L2	CH1	CH2	D	Pack.
89111 00 001	1/8	1/8	5.5	16.5	19.5	9	13	10	10
89111 00 002	1/8	1/4	7	16.5	21	9	15	10	10
* 89111 00 003	5/32 (4)	1/8	5.5	18	19.5	9	13	10	10
* 89111 00 004	5/32 (4)	1/4	7	18	21	9	15	10	10
89111 00 005	1/4	1/8	5.5	21	21.5	11	13	12.5	10
89111 00 006	1/4	1/4	7	21	23	11	15	12.5	10
89111 00 007	1/4	3/8	7.5	21	23.5	11	17	12.5	10
* 89111 00 008	5/16 (8)	1/8	5.5	22.5	22.5	12	13	14.5	10
* 89111 00 009	5/16 (8)	1/4	7	22.5	22.5	12	15	14.5	10
* 89111 00 010	5/16 (8)	3/8	7.5	22.5	23	12	17	14.5	10
* 89111 00 018	5/16 (8)	1/2	9	22.5	25.5	12	13	14.5	10
89111 00 011	3/8	1/8	5.5	26.5	24	14	14	17.5	10
89111 00 012	3/8	1/4	7	26.5	26.5	14	16	17.5	10
89111 00 013	3/8	3/8	7.5	26.5	24.5	14	17	17.5	10
89111 00 014	3/8	1/2	9	26.5	27	14	21	17.5	10
89111 00 015	1/2	1/4	7	31.5	28.7	16	16	21.5	10
89111 00 016	1/2	3/8	7.5	31.5	26.5	16	17	21.5	10
89111 00 017	1/2	1/2	9	31.5	29	16	21	21.5	10

89116

RACCORDO A L ORIENTABILE MASCHIO CILINDRICO

ORIENTING ELBOW MALE ADAPTOR (PARALLEL)
 WINKELVERSCHRAUBUNG ZYLINDRISCH (DREHBAR)
 EQUERRE ORIENTABLE MÂLE, CYLINDRIQUE
 RACOR A L ORIENTABLE MACHO CILÍNDRICO CON TÓRICA
 CONEXÃO MACHO EM "L" ORIENTÁVEL COM ROSCA PARALELA

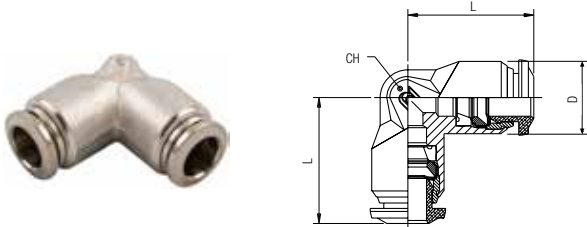


Code	Tube	A	B	L1	L2	CH1	CH2	D	Pack.
89116 00 001	1/8	10/32	4.5	16	17.5	9	8	10	10
89116 00 002	5/32 (4)	10/32	4.5	17.5	17.5	9	8	10	10
89116 00 003	1/4	10/32	4.5	21	19.5	11	11	12.5	10

89130

RACCORDO A L INTERMEDIO

ELBOW CONNECTOR
WINKELVERSCHRAUBUNG
RACCORD EQUERRE
RACOR A L INTERMEDIO
CONEXÃO EM "L" TUBO-TUBO

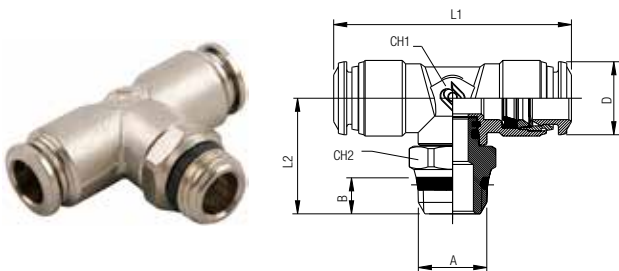


Code	Tube	L	CH	D	Pack.
89130 00 001	1/8	16.5	9	10	10
* 57130 00 001	5/32 (4)	17	9	10	10
89130 00 003	1/4	21	11	12.5	10
* 57130 00 003	5/16 (8)	22.5	13	14	10
89130 00 005	3/8	26	16	17.5	10
89130 00 006	1/2	30.5	19	21.5	10

89211

RACCORDO A T ORIENTABILE MASCHIO "UNIVERSAL SHORT"

ORIENTING TEE MALE ADAPTOR "UNIVERSAL SHORT" - CENTRE LEG
T-EINSCHRAUBVERSCHRAUBUNG KONISCH (DREHBAR) "UNIVERSAL SHORT"
TÉ ORIENTABLE À PIQUAGE MÂLE CENTRAL, CONIQUE "UNIVERSAL SHORT"
RACOR A T ORIENTABLE MACHO CENTRAL CÓNICO "UNIVERSAL SHORT"
CONEXÃO EM "T" CENTRAL ORIENTÁVEL COM ROSCA MACHO "UNIVERSAL SHORT"

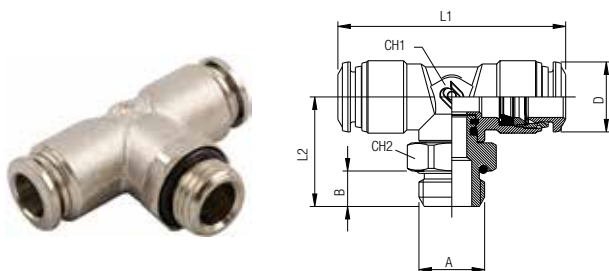


Code	Tube	A	B	L1	L2	CH1	CH2	D	Pack.
89211 00 001	1/8	1/8	5.5	34	17	9	8	10	10
89211 00 002	1/8	1/4	7	34	20	9	15	10	10
* 89211 00 003	5/32 (4)	1/8	5.5	34	20	9	13	10	10
* 89211 00 004	5/32 (4)	1/4	7	34	21.5	9	15	10	10
89211 00 005	1/4	1/8	5.5	40	20	11	13	12.5	10
89211 00 006	1/4	1/4	7	40	21.5	11	16	12.5	10
89211 00 007	1/4	3/8	7.5	40	22	11	17	12.5	10
* 89211 00 016	5/16 (8)	1/8	5.5	45	25.5	13	13	14.5	10
* 89211 00 015	5/16 (8)	1/4	7	45	25.5	13	15	14.5	10
* 89211 00 017	5/16 (8)	3/8	7.5	45	26	13	17	14.5	10
89211 00 014	3/8	1/8	5.5	52	26.5	14	14	17.5	10
89211 00 008	3/8	1/4	7	52	29	14	16	17.5	10
89211 00 009	3/8	3/8	7.5	52	27	14	17	17.5	10
89211 00 010	3/8	1/2	9	52	31	14	21	17.5	10
89211 00 011	1/2	1/4	7	61	31.5	16	16	21.5	10
89211 00 012	1/2	3/8	7.5	61	29.5	16	17	21.5	10
89211 00 013	1/2	1/2	9	61	32	16	21	21.5	10

89216

RACCORDO A T ORIENTABILE MASCHIO CILINDRICO

ORIENTING TEE MALE ADAPTOR (PARALLEL) - CENTRE LEG
T-EINSCHRAUBVERSCHRAUBUNG ZYLINDRISCH (DREHBAR)
TÉ ORIENTABLE À PIQUAGE MÂLE CENTRAL, CYLINDRIQUE
RACOR A T ORIENTABLE MACHO CENTRAL CILÍNDRICO CON TÓRICA
CONEXÃO MACHO EM "T" ORIENTÁVEL COM ROSCA PARALELA

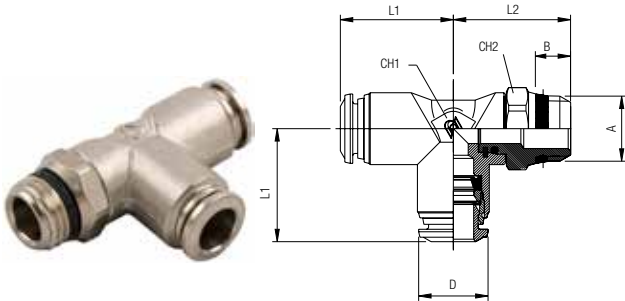


Code	Tube	A	B	L1	L2	CH1	CH2	D	Pack.
89216 00 001	1/8	10/32	4.5	33	17	9	8	10	10
89216 00 002	5/32 (4)	10/32	4.5	34	18	9	8	10	10
89216 00 003	1/4	10/32	4.5	42	20.5	11	11	12.5	10

89223

RACCORDO A T ORIENTABILE MASCHIO LATERALE "UNIVERSAL SHORT"

ORIENTING TEE MALE ADAPTOR "UNIVERSAL SHORT" OFF - SET LEG
 L-EINSCHRAUBVERSCHRAUBUNG KONISCH (DREHBAR) "UNIVERSAL SHORT"
 TÉ ORIENTABLE À PIQUAGE LATÉRAL, CONIQUE "UNIVERSAL SHORT"
 RACOR A T ORIENTABLE MACHO LATERAL CÓNICO "UNIVERSAL SHORT"
 CONEXÃO EM "T" LATERAL ORIENTÁVEL COM ROSCA MACHO "UNIVERSAL SHORT"

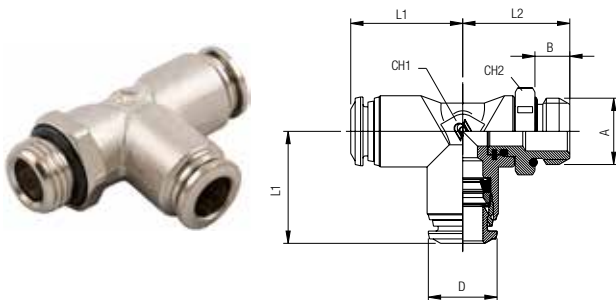


Code	Tube	A	B	L1	L2	CH1	CH2	D	Pack.
89223 00 001	1/8	1/8	5.5	16.5	18.5	9	13	10	10
89223 00 002	1/8	1/4	7	16.5	20.5	9	15	10	10
* 89223 00 003	5/32 (4)	1/8	5.5	17	20	9	13	10	10
* 89223 00 004	5/32 (4)	1/4	7	17	21.5	9	15	10	10
89223 00 005	1/4	1/8	5.5	21.5	20	11	13	12.5	10
89223 00 006	1/4	1/4	7	21.5	21.5	11	15	12.5	10
89223 00 007	1/4	3/8	7.5	21.5	22	11	17	12.5	10
* 89223 00 015	5/16 (8)	1/8	5.5	22.5	24	13	13	14.5	10
* 89223 00 016	5/16 (8)	1/4	7	22.5	24	13	15	14.5	10
* 89223 00 017	5/16 (8)	3/8	7.5	22.5	27	13	17	14.5	10
89223 00 014	3/8	1/8	5.5	27	26	14	14	17.5	10
89223 00 008	3/8	1/4	7	27	26.5	14	16	17.5	10
89223 00 009	3/8	3/8	7.5	27	27	14	17	17.5	10
89223 00 010	3/8	1/2	9	27	29	14	21	17.5	10
89223 00 011	1/2	1/4	7	31.5	31.5	16	16	21.5	10
89223 00 012	1/2	3/8	7.5	31.5	31.5	16	20	21.5	10
89223 00 013	1/2	1/2	9	31.5	32.5	16	21	21.5	10

89226

RACCORDO A T ORIENTABILE MASCHIO LATERALE CILINDRICO

ORIENTING TEE MALE ADAPTOR (PARALLEL) - OFF - SET LEG
 L-EINSCHRAUBVERSCHRAUBUNG ZYLINDRISCH (DREHBAR)
 TÉ ORIENTABLE À PIQUAGE LATÉRAL, CYLINDRIQUE
 RACOR A T ORIENTABLE MACHO LATERAL CILÍNDRICO CON TÓRICA
 CONEXÃO MACHO EM "T" LATERAL ORIENTÁVEL COM ROSCA PARALELA

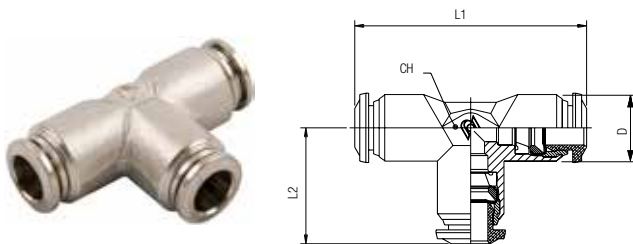


Code	Tube	A	B	L1	L2	CH1	CH2	D	Pack.
89226 00 001	1/8	10/32	4.5	16.5	17	9	8	10	10
89226 00 002	5/32 (4)	10/32	4.5	17	18	9	8	10	10
89226 00 003	1/4	10/32	4.5	21	20.5	11	11	12.5	10

89230

RACCORDO A T INTERMEDIO

TEE CONNECTOR
 T-ANSCHLUSS
 RACCORD TÉ
 RACOR A T INTERMEDIO
 CONEXÃO EM "T" TUBO-TUBO

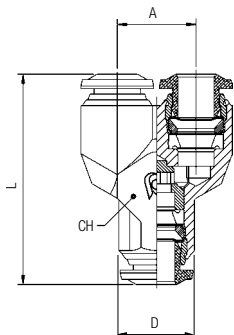


Code	Tube	L1	L2	CH	D	Pack.
89230 00 001	1/8	33	17	9	10	10
* 57230 00 001	5/32 (4)	34	17	9	10	10
89230 00 003	1/4	42	21	11	12.5	10
* 57230 00 003	5/16 (8)	45	22.5	13	14	10
89230 00 005	3/8	53	26.5	16	17.5	10
89230 00 006	1/2	61	30.5	19	21.5	10

89310

RACCORDO A Y INTERMEDIO

Y CONNECTOR
Y-ANSCHLUSS
RACCORD Y SIMPLE
RACOR A Y INTERMEDIO
CONEXÃO EM "Y" TUBO-TUBO

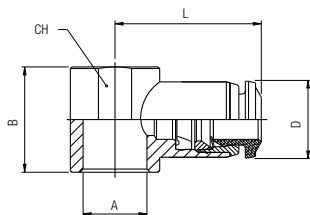


Code	Tube	A	L	CH	D	Pack.
89310 00 001	1/8	10	29	11	10	10
* 57310 00 001	5/32 (4)	11	32	11	10	10
89310 00 003	1/4	13.5	36.5	13	12.5	10
* 57310 00 003	5/16 (8)	15.5	41	13	14	10
89310 00 005	3/8	18.5	48	18	17.5	10

89500

ANELLO ORIENTABILE A L

SINGLE BANJO BODY
RINGANSCHLUSS
CORPS SIMPLE POUR BANJO
ANILLO ORIENTABLE SIMPLE
ANEL ORIENTÁVEL EM "L"

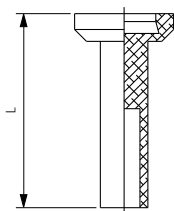


Code	Tube	A	B	L	CH	D	Pack.
89500 00 002	1/8	1/8	15	19	14	10	10
* 57500 00 001	5/32 (4)	10/32	12.5	19	-	10	10
* 57500 00 003	5/32 (4)	1/8	15	21	14	10	10
89500 00 004	1/4	1/8	15	22.5	14	12.5	10
89500 00 005	1/4	1/4	17	25	18	12.5	10
* 57500 00 006	5/16 (8)	1/8	15	24	14	14	10
* 57500 00 007	5/16 (8)	1/4	17	26	18	14	10
* 57500 00 008	5/16 (8)	3/8	20	28	21	14	10
89500 00 006	3/8	1/4	17	29	18	17.5	10
89500 00 007	3/8	3/8	20	30.5	21	17.5	10
89500 00 008	1/2	3/8	20	32	21	21.5	10
89500 00 009	1/2	1/2	24	35	25	21.5	10

88610

TAPPO IN POLIAMIDE

POLYAMIDE PLUG
VERSCHLUSSZAPFEN POLYAMID
BOUCHON EN POLYAMIDE
TAPÓN EN POLIAMIDA
TAMPÃO EM POLIAMIDA

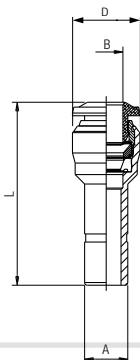


Code	Tube	L	Pack.
88610 00 31 02 NE	1/8	18	10
88610 00 31 27 NE	5/32 (4)	23.5	10
88610 00 31 03 NE	1/4	24.5	10
88610 00 31 28 NE	5/16 (8)	26	10
88610 00 31 04 NE	3/8	28.5	10
88610 00 31 05 NE	1/2	28.5	10

89700

RIDUZIONE

REDUCER
REDUZIERUNG
RÉDUCTION ENCLIQUETABLE
REDUCCIÓN
REDUÇÃO

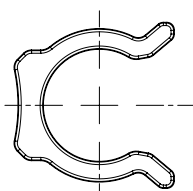


Code	A	B	L	D	Pack.
89700 00 001	1/4	1/8	30	10	10
89700 00 002	1/4	5/32 (4)	30	10	10
* 57700 00 008	5/16 (8)	5/32 (4)	33	10	10
89700 00 003	3/8	1/4	35.5	12.5	10
89700 00 006	3/8	5/16 (8)	36.5	14	10
89700 00 004	1/2	1/4	43	12.5	10
89700 00 005	1/2	3/8	43	17.5	10

50980

CLIP DI SICUREZZA

SECURITY CLIPS
SICHERHEITSClip
CLIP DE SECURITÉ
CLIP DE SEGURIDAD ROJO
CLIP DE SEGURANÇA

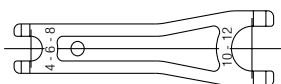


Code	Tube	Pack.
50980 00 32 X1 RO	5/32 (4)	50
50980 00 32 X4 RO	1/4 (6)	50
50980 00 32 X7 RO	5/16 (8)	50
50980 00 32 X9 RO	3/8 (10)	50
50980 00 32 Y1 RO	1/2 (12)	50

50990

LEVA SGANCIO ADATTATORI

TOOL FOR DISASSEMBLING
LÖSEWERKZEUG
OUTIL DE DÉMONTAGE
LLAVE DE DESMONTAJE
FERRAMENTA PARA DESMONTAGEM

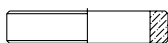


Code	Pack.
50990 00 001	10

50006

ANELLO DI TENUTA PER FILETTI CONICI "UNIVERSAL SHORT"

THREAD PACKING FOR THE "UNIVERSAL SHORT" TAPER THREADS
DICHTRINGE FÜR KONISCHE GEWINDE "UNIVERSAL SHORT"
BAGUE D'ÉTANCHÉITÉ POUR FILETAGES CONIQUES "UNIVERSAL SHORT"
JUNTA DE CIERRE PARA ROSCAS CÓNICAS "UNIVERSAL SHORT"
ANEL DI VEDAÇÃO PARA ROSCAS CÔNICA "UNIVERSAL SHORT"



Code	Thread	Pack.
50006 00 24 02 00	1/8	10
50006 00 24 03 00	1/4	10
50006 00 24 04 00	3/8	10
50006 00 24 05 00	1/2	10

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
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