



Safe connection. Beyond performance.

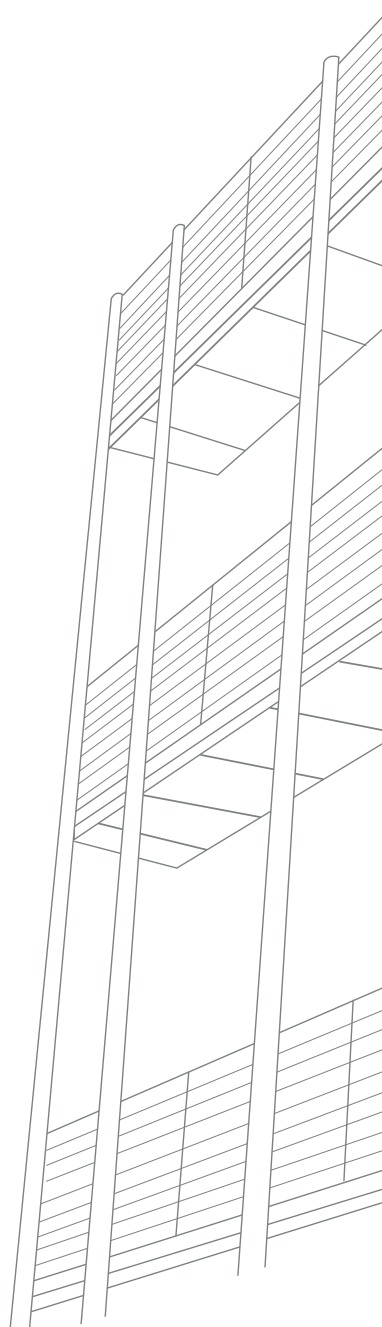


XVR Series

M A D E I N I T A L Y







 **TierreGroup**®

 **TierreFittings**®

 **F-Line.PRO**

 **NET.Fit**®

 **INOX.Fit**®



PUSH TO CONNECT XVR SERIES



PLUS

Suitable to be **USED IN AGGRESSIVE ENVIRONMENTS** and **IN CRITICAL CONDITIONS**

Suitable for **PERMANENT FOOD CONTACT APPLICATIONS**

OPTIMIZED DESIGN with **COMPACT DIMENSIONS**

TAILOR MADE PRODUCTS ON SPECIFIC CUSTOMERS NEEDS





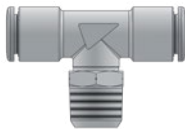
p. 8 / **XVRC-N**



p. 8 / **XVRMM-N**



p. 8 / **XVRL-N**



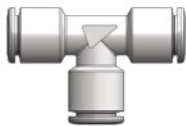
p. 9 / **XVRT-N**



p. 9 / **XVRUC-N**



p. 9 / **XVRUL-N**

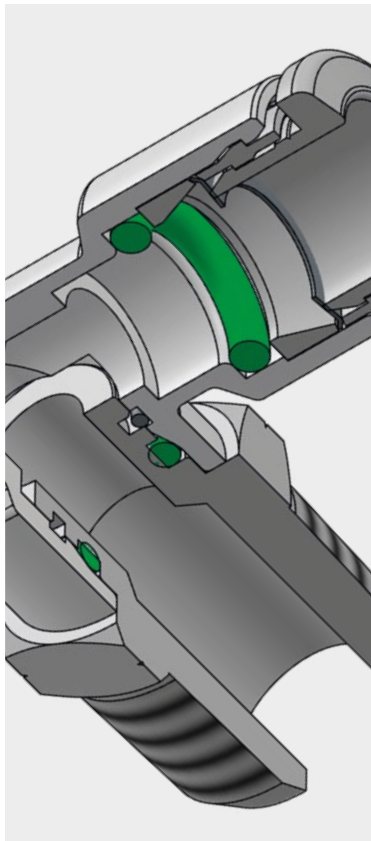


p. 10 / **XVRUT-N**



p. 10 / **XVRGJ-N**





-4°F ÷ 302°F



Working pressure:
290 PSI
Negative pressure:
-13,7 PSI



Compressed air, vacuum,
water and fluids suitable with
the construction materials



NPT ANSI B 1.20.1
from NPT 1/8" to NPT 1/2"



Polyamide PA, Polyethylene PE,
FEP, PTFE and Inox tube with
groove (see the table)



NSF/ANSI 169

COMPONENT



Food contact materials
EC 1935/2004



D.M. 174/2004



ICIM certified product
food contact materials



ICIM certified product
water contact materials



Products in compliance with
the directive 1907/2006



Products in compliance with
the directive EU 2015/863

Body: Stainless steel AISI 316L

Collet: Stainless steel AISI 316L

Collar: Stainless steel AISI 316L

Back ring: Stainless steel AISI 316L

O-ring: FKM NSF/ANSI 61 certified and FDA compliant

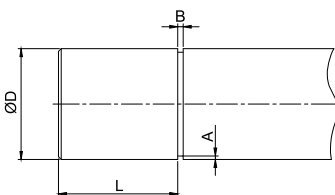
Seal: FKM NSF/ANSI 61 certified and FDA compliant

Lock claw: Stainless steel AISI 301

Retaining ring for swivel system: Stainless steel AISI 302



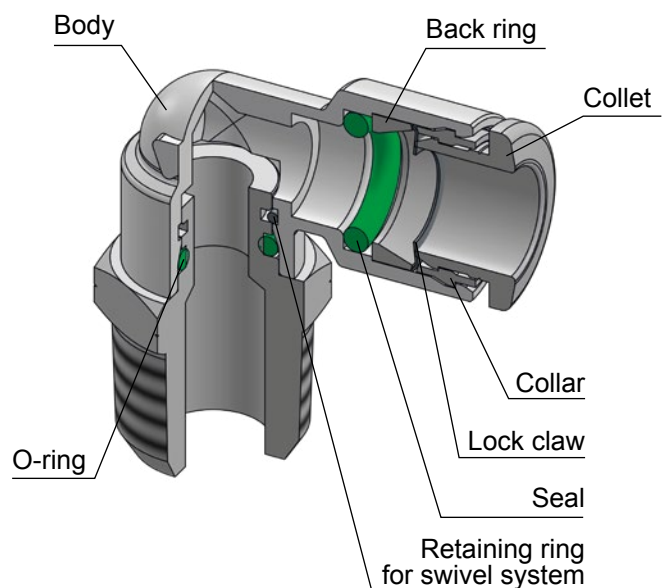
PIPE GROOVE - HARD METALLIC TUBE



When using metallic
tubes, please deburr
the tubes ends to avoid
potential cutting or other
damages to the O-ring.

ØD (inch)	L (inch)	B (inch)	A (inch)
5/32"	.210	.039	.0098
1/4"			
5/16"	.275	.039	.0196
3/8"			
1/2"			

CONSTRUCTION DETAILS

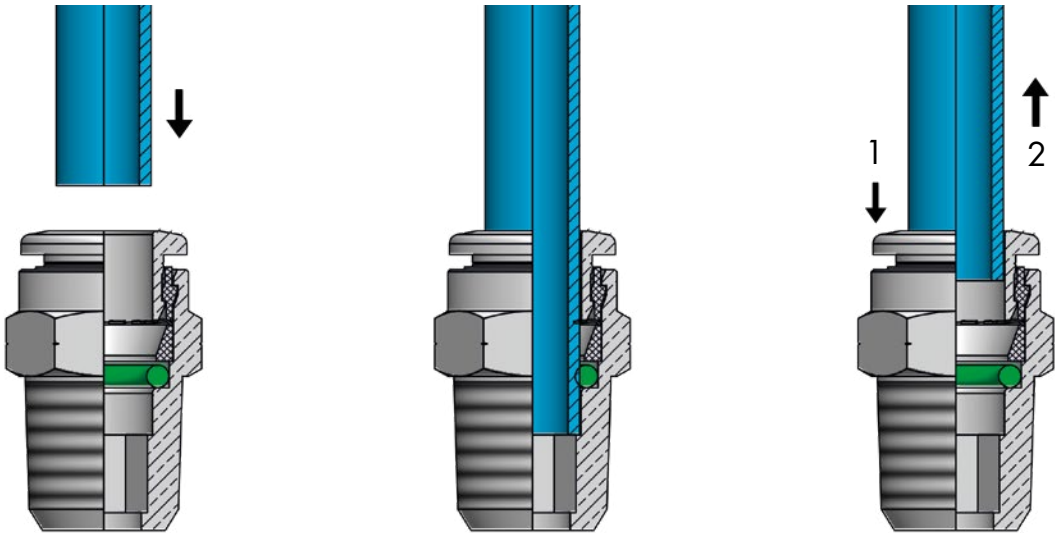


INSERTION OF THE TUBE INTO THE FITTING

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube off square (90°), insert tube up to the fitting end stop, and pull back gently to make sure it is correctly connected.
- If there is any damage or scratches on the tube surface the tube is an oval shape, air leakage and tube release may occur. Check the tube condition carefully.
- The OD of polyurethane tube expands when pressure is applied. Reinsertion into the fitting may not always be possible. Check the OD of the tube and renew it the expansion is out of tolerance.

DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure in the system is zero before releasing the tube from the fitting.
- To release the tube, press the release sleeve towards the fitting with one hand (1) and pull the tube away from the fitting with the other hand (2).
- Always remove the section of tube previously inserted into the fitting before reinserting the tube by cutting back the tube. Always use the correct tube cutter in order to cut the tube square and free of damage.



TUBE TOLERANCES

Ø TUBE (inch)	5/32"	1/4"	5/16"	3/8"	1/2"
TOLERANCE (inch)	±.0039	±.0039	±.0039	±.0059	±.0059

TUBE INSERTION DEPTH

Ø TUBE (inch)	5/32"	1/4"	5/16"	3/8"	1/2"
TUBE INSERTION LENGHT (inch)	.520	.634	.637	.720	.767

TIGHTENING TORQUE

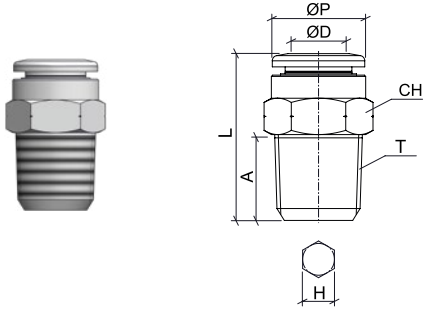
NPT ANSI B 1.20.1

THREAD	1/8"	1/4"	3/8"	1/2"
lb-ft	2.58	3.32	5.16	8.85



XVRC-N

Male connector NPT thread

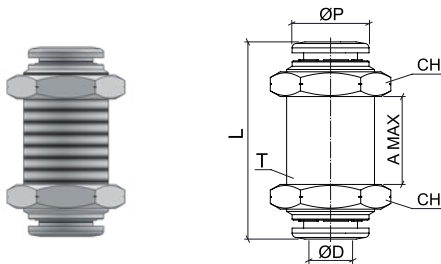


CODE	ØD	T	ØP	A	L	CH *	H
XVRC532N01	5/32"	N 1/8"	.393	.334	.748	11	1/8"
XVRC532N02		N 1/4"	.393	.413	.807	14	1/8"
XVRC1-4N01	1/4"	N 1/8"	.511	.334	.885	13	3/16"
XVRC1-4N02		N 1/4"	.511	.413	.885	14	3/16"
XVRC516N01	5/16"	N 1/8"	.551	.334	1.063	14	3/16"
XVRC516N02		N 1/4"	.551	.413	1.004	14	1/4"
XVRC516N03		N 3/8"	.551	.452	.925	17	1/4"
XVRC38N02	3/8"	N 1/4"	.630	.413	1.181	17	1/4"
XVRC38N03		N 3/8"	.630	.452	1.023	17	5/16"
XVRC1-2N03	1/2"	N 1/4"	.748	.452	1.358	22	3/8"
XVRC1-2N04		N 1/2"	.748	.570	1.200	22	3/8"

* CH: Technical dimensions given in metric units (mm)

XVRMM-N

Bulkhead connector

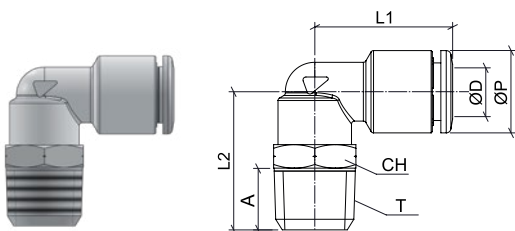


CODE	ØD	T	ØP	A (MAX)	L	CH *
XVRMM532	5/32"	M12x1	.393	.471	1.181	16
XVRMM1-4	1/4"	M14x1	.511	.511	1.401	17
XVRMM516	5/16"	M16x1	.551	.630	1.437	19
XVRMM38	3/8"	M20x1	.551	.669	1.673	24
XVRMM1-2	1/2"	M22x1,5	.748	.787	1.755	25

* CH: Technical dimensions given in metric units (mm)

XVRL-N

Swivel male elbow NPT thread



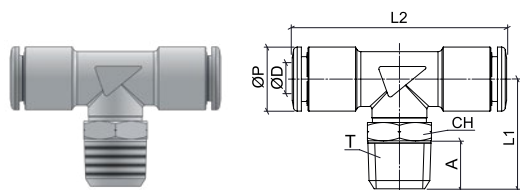
CODE	ØD	T	ØP	A	L1	L2	CH *
XVRL532N01	5/32"	N 1/8"	.393	.334	.767	.826	14
XVRL532N02		N 1/4"	.393	.413	.767	.925	14
XVRL1-4N01	1/4"	N 1/8"	.511	.334	.846	.826	14
XVRL1-4N02		N 1/4"	.511	.413	.846	.925	14
XVRL516N01	5/16"	N 1/8"	.551	.334	.925	.826	14
XVRL516N02		N 1/4"	.551	.413	.925	.925	14
XVRL516N03		N 3/8"	.551	.452	.925	.984	17
XVRL38N02	3/8"	N 1/4"	.630	.413	1.023	1.023	17
XVRL38N03		N 3/8"	.630	.452	1.023	1.082	17
XVRL1-2N03	1/2"	N 3/8"	.748	.452	1.220	1.161	22
XVRL1-2N04		N 1/2"	.748	.570	1.220	1.279	22

* CH: Technical dimensions given in metric units (mm)



XVRT-N

Swivel male tee NPT thread

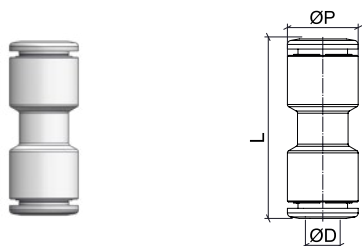


CODE	ØD	T	ØP	A	L1	L2	CH *
XVRT532N01	5/32"	N 1/8"	.393	.334	.846	1.535	14
XVRT1-4N01	1/4"	N 1/8"	.511	.334	.846	1.673	14
XVRT1-4N02		N 1/4"	.511	.413	.944	1.673	14
XVRT516N01	5/16"	N 1/8"	.551	.334	.846	1.850	14
XVRT516N02		N 1/4"	.551	.413	.944	1.850	14
XVRT38N02	3/8"	N 1/4"	.630	.413	1.023	2.027	17
XVRT38N03		N 3/8"	.630	.452	1.082	2.027	17
XVRT38N04		N 1/2"	.630	.570	1.200	2.027	22

* CH: Technical dimensions given in metric units (mm)

XVRUC-N

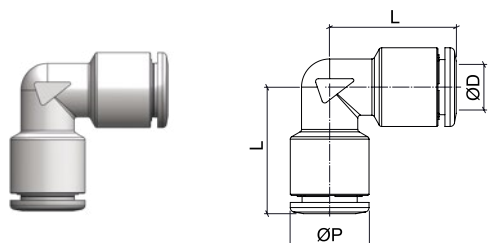
Union connector



CODE	ØD	ØP	L
XVRUC532	5/32"	.393	1.141
XVRUC1-4	1/4"	.511	1.299
XVRUC516	5/16"	.551	1.397
XVRUC38	3/8"	.630	1.515
XVRUC1-2	1/2"	.748	1.751

XVRUL-N

Union elbow

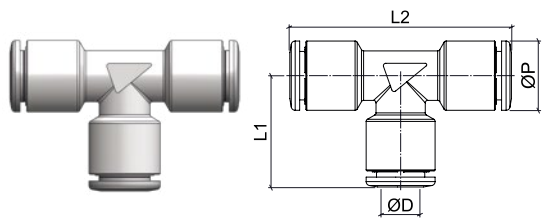


CODE	ØD	ØP	L
XVRUL532	5/32"	.393	.708
XVRUL1-4	1/4"	.511	.826
XVRUL516	5/16"	.551	.885
XVRUL38	3/8"	.630	.984
XVRUL1-2	1/2"	.748	1.141



XVRUT-N

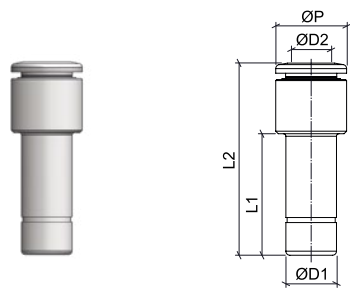
Union tee



CODE	ØD	ØP	L1	L2
XVRUT532	5/32"	.393	.708	1.417
XVRUT1-4	1/4"	.511	.826	1.653
XVRUT516	5/16"	.551	.885	1.791
XVRUT38	3/8"	.630	.984	1.988
XVRUT1-2	1/2"	.748	1.141	2.283

XVRGJ-N

Stem reduction



CODE	ØD1	ØD2	ØP	L1	L2
XVRGJ1-4-532	1/4"	5/32"	.393	.708	1.171
XVRGJ516-1-4	5/16"	1/4"	.511	.767	1.273
XVRGJ38-1-4	3/8"	1/4"	.511	.944	1.450
XVRGJ38-516	3/8"	5/16"	.551	.944	1.494





NSF CERTIFICATION

NSF International

789 N. Dixboro Road, Ann Arbor, MI 48105 USA

RECOGNIZES

Tierre Group S.p.A.
Italy

AS COMPLYING WITH NSF/ANSI 169 AND ALL APPLICABLE REQUIREMENTS.
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE
AUTHORIZED TO BEAR THE NSF MARK.



ISO/IEC 17065
Product Certification Body
#0216
Certification Program
Accredited by the
American National
Standards Institute



Certification Program
Accredited by the
Standards Council
of Canada

This certificate is the property of NSF International and must be returned upon request. This certificate remains valid as long as this client has products in NSF's Official Listings for the referenced standards. For the most current and complete Listing information, please access NSF's website (www.nsf.org).

July 10, 2019
Certificate# C0484626 - 01

Sarah Krol
Global Managing Director, Food Safety Product Certification



FOOD CONTACT MATERIALS DECLARATION - EC 1935/2004*

* Full certification available on our website (www.tierrefittings.com) or on request.



Tierre Group S.p.a.
Headquarters: Via Dell'Industria 18 – 20032 Corno (MI) – Italy
Warehouse: Via Dell'Artigianato 2 – 20032 Corno (MI) – Italy
Production: Via Marco Biagi 1 – 25045 Castegnato (BS) – Italy
C.F. and P.IVA IT 12437570158 – Cap. Soc. €2.000.000,00 i.v.
REA MI-1558390

Phone +39 02 663088.1 – Fax +39 02 66304172
www.tierregroup.com – info@tierregroup.com

DECLARATION OF CONFORMITY**FCMs**

Food Contact Materials



TIERRE GROUP S.p.a.
DECLARES

That the items related to the following product range

PUSH-IN FITTINGS**XVR SERIES INOX AISI 316L**

items produced with the following materials

AISI 316L Stainless Steel - AISI 302 Stainless - Steel AISI 301 Stainless Steel
Viton - EPDM (option)

ARE IN COMPLIANCE WITH

To the following General Community Legislation:

EC 1935/2004 regulation of the European Parliament and of the Council dated 27th October 2004 on materials and articles intended to come into contact with food and abrogating the Directives 80/590/EEC and 89/109/EEC.

Commission Regulation **EC 2023/2006** dated 22nd December 2006 on good manufacturing practice for materials and articles intended to come into contact with food.

Commission Regulation **EC 10/2011 and others after then**, on plastic materials and articles intended to come into contact with food.

Regulation **(EU) 2025/351** amending Regulation (EU) No 10/2011 on plastic materials.

To the following General National Legislation:

Art. 1, art. 3, art 4 paragraph 5, art. 6 of the Presidential Decree dated 23rd August 1982, No. 777, Implementation of the Directive (EEC) No. 76/893 and subsequent amendments, starting from the entry into force of the Legislative Decree dated 10th February 2017, No. 29, Sanctioning discipline for the violation of the provisions as listed in the CE regulations regarding materials and objects intended to come into contact with food products and food in general.

To the following Specific National Legislation:

Ministerial Decree No. 34 dated 21st March 1973, Hygienic regulations for packaging, containers, utensils intended to come into contact with food substances or substances for personal use and subsequent updates and modifications.

These materials are in compliance with the applicable community and national regulations concerning materials and articles intended to come into contact with food. Consequently, the products meet the requirements of the European Regulations and National Legislation as listed above.

For all the metal alloys different from aluminum and stainless steel, including surface treatments, as no specific measures have been taken at national and / or community level, the suitability has been evaluated according



D.M. 174/2004 DECLARATION

* Full certification available on our website (www.tierrefittings.com) or on request.



Tierre Group S.p.a.
 Headquarter: Via Dell'Industria 18 – 20032 Corno (MI) – Italy
 Warehouse: Via Dell'Artigianato 2 – 20032 Corno (MI) – Italy
 Production: Via Marco Biagi 1 – 25045 Castegnato (BS) – Italy
 C.F. e P.IVA IT 12437570158 – Capital €120.000,00
 REA MI-1558390

Phone. +39 02 663088.1 – Fax +39 02 66304172
www.tierregroup.com – info@tierregroup.com

**DECLARATION OF CONFORMITY
 D.M. 174/2004**



Regulation concerning materials and objects intended to be used in fixed systems for the collection, treatment, adduction and distribution of water for human consumption.

**TIERRE GROUP S.p.a.
 DECLARES**

that the items related to the following product range

**PUSH-IN FITTINGS
 XVR SERIES INOX AISI 316L**

items produced with the following materials
 AISI 316L Stainless Steel - AISI 302 Stainless - Steel AISI 301 Stainless Steel
 Viton - EPDM (option)

ARE IN COMPLIANCE WITH

Legislative Decree 102 of June 25, 2025, which repeals and replaces D.M. 174 of April 6, 2004, concerning materials in contact with drinking water. This new legislative decree updates Italian legislation by transposing European Directive 2020/2184 and establishes new rules for drinking water quality, introducing stricter parameters and strengthening controls.

The conformity test has been realized by ICIM on the basis of the above.

It's responsibility of the user to check the eventual suitability of the products for the usage at the specific conditions of use. Tierre Group S.p.a. recommends to do a washing cycle of the circuit realized using the products object of this declaration before starting the system.

This declaration doesn't give any indication regarding the usability from a technical and a technological point of view. It's responsibility of the user to check the suitability of the material for the application. At the same time it's responsibility of the industrial and the commercial operators to maintain the traceability of the products supplied by Tierre Group S.p.a.

All the supporting documents relating to this declaration, including those referring to the tests realized on the products and demonstrating the conformity of the products themselves, are available to be checked by the competent authorities, when asked, at the Tierre Group S.p.a. headquarters.

This declaration is valid starting from the date below mentioned and will be replaced if some substantial changes are introduced, such as modifications in the production of materials changing the essential requirements in compliance with the conformity or modifications and updates in the legislative references mentioned in this declaration. In these cases a new audit will be required in accordance with the conformity.

Cormano, 25th June 2025

TIERRE GROUP S.p.a
 Dott. Marco Regis



M2DC rev.0 Gennaio 2020



ICIM PRODUCT CERTIFICATION: FOOD CONTACT MATERIALS



Certificazione di Prodotto Product Certification

Certificato N.
Certificate No.

ICIM-MOC-009809-05

ALL'AZIENDA / TO THE FIRM

TIERRE GROUP S.P.A.

VIA DELL'INDUSTRIA, 18 20032 CORMANO MI IT - Italia

UNITÀ OPERATIVE / OPERATIVES UNITS

VIA DELL'INDUSTRIA, 18 20032 CORMANO MI IT - Italia

PER I SEGUENTI PRODOTTI / FOR THE FOLLOWING PRODUCTS

Raccordi ad innesto rapido in acciaio inox AISI 316L.
Raccordi ad innesto rapido in ottone con trattamento T.E.A.
Raccordi ad innesto rapido in ottone CW510L
Raccordi ad innesto rapido in ottone CW510L con trattamento di nichelatura chimica

AISI 316L stainless steel push-in fittings.
Brass push-in fittings with T.E.A. plating
CW510L Brass push-in fittings
CW510L Brass push-in fittings with chemical nickel plating

CON DENOMINAZIONE COMMERCIALE / WITH TRADE NAME/S

Serie XVR INOX AISI 316L / XVR SERIES INOX AISI 316L

Food grade serie HFR/ Food grade HFR SERIES

Serie LFR(P) / LFR(P) Series

Serie HLFR (P)/ HLFR(P) Series *

Serie NLFR/ NLFR Series *

Serie LFHRP/ LFHRP Series*; Serie (P)LFHRP/ (P)LFHRP Series*;

Serie XHRP/ XHRP Series*; Serie (P)XHRP/ (P)XHRP Series*

* (Utilizzo limitato ai fluidi per i quali sono previste prove con i simulanti A, C e D come definito dal DM n.338 del 22 luglio 1998, All. I, Cap. I)
 (Use limited to fluids for which tests are provided for simulants A, C and D as defined by Ministerial Decree no. 388 of 22 July 1998, Annex I, Chap. I.)

CONFORMEMENTE AL DOCUMENTO NORMATIVO ICIM NELLA REVISIONE CORRENTE ALLA DATA DI EMISSIONE
 IN COMPLIANCE WITH ICIM NORMATIVE DOCUMENT IN THE CURRENT REVISION AT THE DATE OF ISSUE

0445CS

PRODOTTI E COMPONENTI A CONTATTO CON ALIMENTI SECONDO DISPOSIZIONI MOCA
PRODUCTS AND COMPONENTS IN CONTACT WITH FOOD ACCORDING TO FCM REGULATIONS

Vincenzo Delacqua
 Rappresentante Direzione / Management Representative

ICIM S.p.A.

PRIMA EMISSIONE
FIRST ISSUE

13/02/2020

EMISSIONE CORRENTE
CURRENT ISSUE

08/01/2026

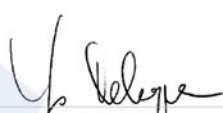
DATA DI SCADENZA
EXPIRING DATE

12/02/2030

ICIM S.p.A. - Piazza Don Enrico Mapelli, 75 - 20099 Sesto San Giovanni (MI)
 Società soggetta all'attività di direzione e coordinamento di ICIM GROUP S.r.l.



ICIM PRODUCT CERTIFICATION: WATER CONTACT MATERIALS

 0012	
Certificazione di Prodotto <i>Product Certification</i>	
Certificato N. Certificate No.	ICIM-CAP-009810-03
ALL'AZIENDA / TO THE FIRM TIERRE GROUP S.P.A. VIA DELL'INDUSTRIA, 18 20032 CORMANO MI IT - Italia	
UNITÀ OPERATIVE / OPERATIVE UNITS VIA DELL'INDUSTRIA, 18 20032 CORMANO MI IT - Italia	
PER I SEGUENTI PRODOTTI / FOR THE FOLLOWING PRODUCTS Raccordi ad innesto rapido in acciaio inox AISI 316L <i>Stainless steel AISI 316L push-in fittings</i> Raccordi ad innesto rapido in ottone CW510L <i>CW510L brass push-in fittings</i>	
CON DENOMINAZIONE COMMERCIALE / WITH TRADE NAME/S Serie XVR INOX AISI 316L / XVR SERIES INOX AISI 316L Serie LFR(P) / LFR(P) Series Serie LFHRP/ LFHRP Series; Serie (P)LFHRP/ (P)LFHRP Series; Serie XHRP/ XHRP Series; Serie (P)XHRP/ (P)XHRP Series	
CONFORMEMENTE AL DOCUMENTO NORMATIVO ICIM NELLA REVISIONE CORRENTE ALLA DATA DI EMISSIONE IN COMPLIANCE WITH ICIM NORMATIVE DOCUMENT IN THE CURRENT REVISION AT THE DATE OF ISSUE 0415CS PRODOTTI E COMPONENTI UTILIZZATI A CONTATTO CON ACQUA DESTINATA AL CONSUMO UMANO (ACQUA POTABILE) SULLA BASE DI RIFERIMENTO DELLE INDICAZIONI DEL DM N. 174/2004. PRODUCTS AND COMPONENTS IN CONTACT WITH WATER INTENDED FOR HUMAN CONSUMPTION (DRINKING WATER) ON THE BASIS OF THE INDICATIONS OF MINISTERIAL DECREE NR. 174/2004	
 Vincenzo Delacqua Rappresentante Direzione / Management Representative ICIM S.p.A.	
PRIMA EMISSIONE FIRST ISSUE 13/02/2020	EMISSIONE CORRENTE CURRENT ISSUE 08/02/2026
DATA DI SCADENZA EXPIRING DATE 12/02/2030	
ICIM S.p.A. - Piazza Don Enrico Mapelli, 75 - 20099 Sesto San Giovanni (MI) Società soggetta all'attività di direzione e coordinamento di ICIM GROUP S.r.l.	







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