



Safe connection. Beyond performance.

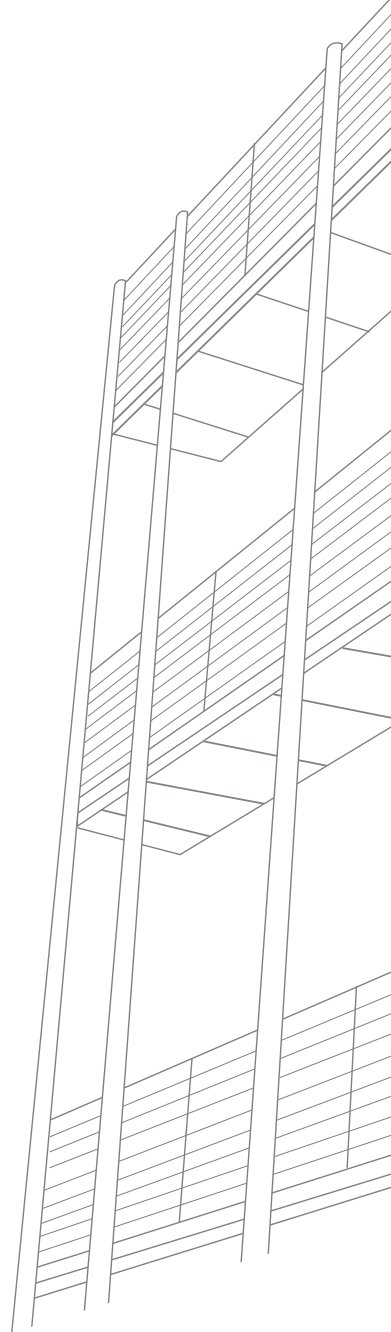


Fluidfit



Fluidfit

Fittings for potable water, drink dispensers and beverages



 **TierreGroup**®

 **TierreFittings**®

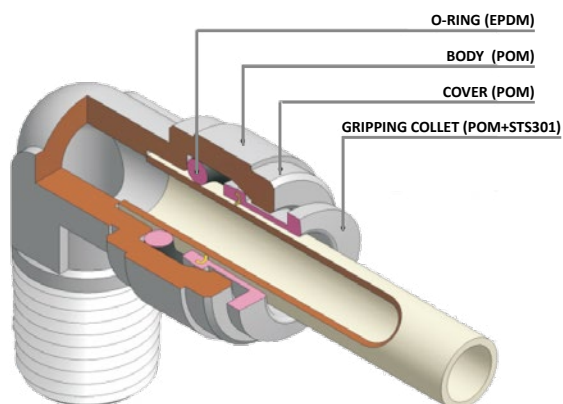
 **F-Line**®.PRO

 **NET.Fit**®

 **INOX.Fit**®



MATERIALS



Fluidfit products are designed for water, food and air contact but can be used with selected gases, vacuum & other liquids.

Easy actions allow the tube to be connected and released quickly, saving time and expenses.

Fluidfit products are made of NSF and ACS approved non-toxic material.

According to DVGW worksheet W 270, materials which are used in the drinking water sector, must have a surface which excludes an unwanted surface fouling by microorganisms.

CDC Fluidtech Europe's POM (colors Black, Grey and Natural) is suitable for the use in drinking water systems according to the results of the microbiological examinations pursuant to DVGW Technical standard W 270 (11/2007).

Fluidfit meets the requirements for the product group:

Fittings for pipes with DN < 80 mm in contact with cold water (23°C).

I prodotti della gamma Fluidfit sono progettati per acqua, applicazioni alimentari e aria ma possono essere anche usati con gas selezionati, vuoto e altri liquidi.

Movimenti semplici permettono l'inserimento e lo sgancio del tubo velocemente, risparmiando tempo e costi.

Il materiale dei prodotti Fluidfit non è tossico ed è approvato dalla NSF e ACS.

Concordemente a quanto disposto da DVGW normativa W270, i materiali utilizzati nel settore dell'acqua destinata al consumo umano, devono presentare una superficie che escluda una contaminazione superficiale indesiderata da parte di microrganismi.

Il POM utilizzato da CDC Fluidtech Europe (di colore Nero, Grigio e Naturale) è adatto per l'utilizzo in sistemi di acqua potabile in base ai risultati delle analisi microbiologiche ai sensi della normativa DVGW W 270 (11/2007).

Fluidfit soddisfa i requisiti per la classe di prodotti:

Raccordi per tubi con DN < 80 mm a contatto con acqua fredda (23°C).

COLOR CODES

HUT 0606 B	B (BLACK) (metric)	
HUT 3/8-3/8 G	G (GREY) (imperial)	

MAXIMUM TORQUE VALUES

FOR BSP, BSPT AND NPT PLASTIC THREADS

Threads	1/8"	1/4"	3/8"	1/2"	3/4"
Max Torque	1.5 Nm	1.5 Nm	3.0 Nm	3.0 Nm	4.0 Nm

TECHNICAL DATA

Fluid Type	Water, Beverages, Vacuum, Compressed Air, Gases & Liquids suitable with Construction Materials
Working temperature	from -20°C to 98°C: dry air from 1°C to 98°C: air & fluids * *Please be advised that NSF standards cover only the temperature range from 1°C to 70°C. System performances always depend from fittings, tubes and possible other items and accessories used. It is responsibility of the users to cross check the technical features of each SINGLE component in order to avoid possible failures and damages.
Pressure	From - 750 mmHg up to 20 Bar Depending from the tubes & temperatures applied.
Tube Type (Plastic)	Polyethylene (PE) - Polyamide (PA) Polyurethane (PU) - PTFE - FEP
Tube Type (Soft Metal)	Brass - Copper - Mild Steel - Aluminum
Tube Type (Hard Metal)	Please check page 5 to create groove

Tipo di Fluido	Acqua, Bevande, Vuoto, Aria Compressa, Gas & Liquidi idonei con i materiali costruttivi
Temperatura d'esercizio	da -20°C a 98°C: aria secca da 1°C a 98°C: aria & fluidi * *Si prega di notare che gli standard NSF coprono solo il range di temperatura da 1 °C a 70 °C. Le performance di sistema dipendono sempre dai raccordi, dai tubi e dai possibili altri articoli e accessori utilizzati. E' responsabilità dell'utente fare un controllo incrociato delle caratteristiche tecniche dei SINGOLI componenti in modo da evitare possibili perdite e pericoli.
Pressione d'esercizio	da - 750 mmHg a 20 Bar A seconda dei tubi e temperature utilizzate
Tipo di Tubi (Plastici)	Polietilene (PE) - Poliammide (PA) Poliuretano (PU) - PTFE - FEP
Tipo di Tubi (Metalli teneri)	Ottone - Rame - Acciaio tenero - Alluminio
Tipo di tubi (Metalli duri)	Si prega di controllare a pag. 5 per creare groove

WORKING PRESSURES & TEMPERATURES

∅ / °C	-20°C	1 °C *	25 °C *	70 °C *	98 °C
4 mm 5/32"	0 Bar --> 8 Bar with dry air only 0 Bar --> 8 Bar solo con aria secca	- 750 mmHg --> 20 Bar	- 750 mmHg --> 20 Bar	- 750 mmHg --> 16 Bar	- 750 mmHg --> 10 Bar
6 mm 3/16" - 1/4"		- 750 mmHg --> 20 Bar	- 750 mmHg --> 20 Bar	- 750 mmHg --> 16 Bar	- 750 mmHg --> 10 Bar
8 mm 5/16"		- 750 mmHg --> 20 Bar	- 750 mmHg --> 20 Bar	- 750 mmHg --> 16 Bar	- 750 mmHg --> 10 Bar
10 mm 3/8"		- 750 mmHg --> 16 Bar	- 750 mmHg --> 16 Bar	- 750 mmHg --> 14 Bar	- 750 mmHg --> 10 Bar
12 mm 1/2"		- 750 mmHg --> 14 Bar	- 750 mmHg --> 14 Bar	- 750 mmHg --> 8 Bar	- 750 mmHg --> 6 Bar
15 mm		- 750 mmHg --> 14 Bar	- 750 mmHg --> 14 Bar	- 750 mmHg --> 8 Bar	- 750 mmHg --> 6 Bar
22 mm		- 750 mmHg --> 14 Bar	- 750 mmHg --> 14 Bar	- 750 mmHg --> 8 Bar	- 750 mmHg --> 6 Bar

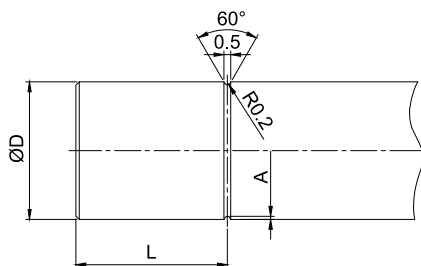
*: temperatures and pressures indicated refers to the NSF standards limits. Please, contact our technical department for higher temperature and/or pressure application needs.

System performances always depend from fittings, tubes and possible other items and accessories used. It is responsibility of the users to cross check the technical characteristics of each single component in order to avoid possible failures and dangers.

*: temperature e pressioni indicate si riferiscono ai limiti standard della NSF. Vi preghiamo di contattare il nostro ufficio tecnico per applicazioni ed esigenze con temperature e/o pressioni più elevate.

Le performance di sistema dipendono sempre dai raccordi, dai tubi e possibili altri articoli e accessori utilizzati. E' responsabilità dell'utente fare un controllo incrociato delle caratteristiche tecniche dei singoli componenti in modo da evitare possibili perdite e pericoli.

PIPE GROOVE - HARD METALLIC TUBE



∅D (mm)	L	A
4	7,6	0,23
6	8,0	0,23
8	9,0	0,23
10	11,0	0,23
12	12,7	0,23
15	15,0	0,23
22	17,4	0,23

∅D (inch)	L	A
5/32	7,6	0,23
3/16	7,7	0,23
1/4	9,4	0,23
5/16	9,0	0,23
3/8	11,0	0,23
1/2	12,7	0,23

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

Qualora si utilizzino tubi metallici è necessario sbavare le parti terminali del tubo al fine di evitare tagli o altri danni agli o-ring.

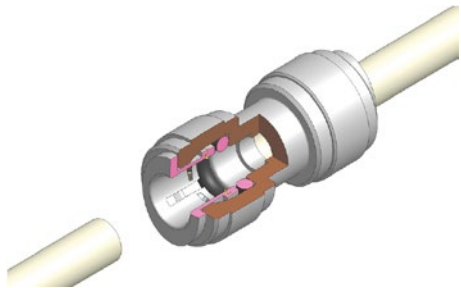
Technical Information

INSTRUCTIONS

We recommend to read and follow all the instructions, precautions and warnings contained in this catalogue before using the products in pressurized systems. Failure to follow all instructions, precautions and warnings may result in bodily harm or property damages. CDC Fluidtech Europe disclaims any responsibility in case of damages for wrong use of the products.

Si raccomanda di leggere e seguire attentamente le presenti istruzioni e di rispettare le precauzioni e gli avvertimenti contenuti nel presente documento prima dell'utilizzo dei prodotti in sistemi pressurizzati. L'inosservanza delle istruzioni, delle precauzioni e degli avvertimenti che seguono potrebbe causare danni a persone e/o cose. CDC Fluidtech Europe declina ogni tipo di responsabilità per danni derivanti dall'improprio uso dei prodotti.

HOW TO CONNECT



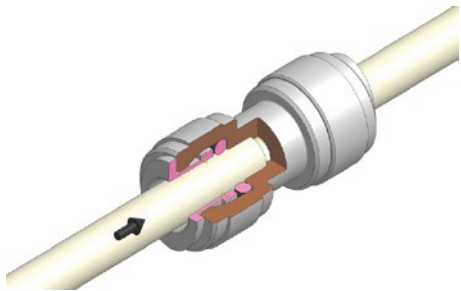
1

Make sure that the tube size and the push-in system size of the fittings are the same. Cut square (90° angle) the part of the tube that has to be inserted into the fittings using the proper tube cutter.

Make sure that the tube used is clean and does not present any scratch, crack, cut or deformity.

Before inserting the tube, please remove any possible obstruction inside the fitting.

Assicurarsi che il tubo ed il sistema ad innesto rapido del raccordo siano della stessa misura. Tagliare ad angolo retto la parte di tubo che dovrà essere inserita nel raccordo mediante l'apposita pinza tagliatubo. Assicurarsi che il tubo utilizzato sia perfettamente pulito e che non presenti tagli, rotture, crepe o deformità. Prima dell'inserimento del tubo rimuovere ogni possibile ostruzione dall'interno del raccordo.



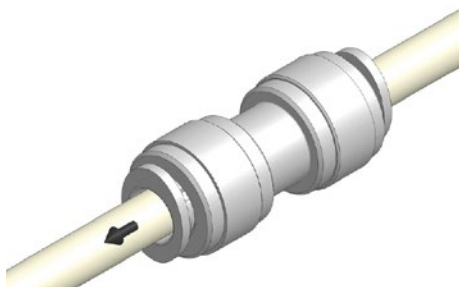
2

Make sure that the tube is correctly and fully inserted.

Inserting the tube into the fitting requires a moderate strain. The tube and the fitting should not be scratched or damaged during the insertion, otherwise there may be leaks or further wrong functions.

Please connect the tube by hands, without using any kind of tool, whether dedicated or not.

Assicurarsi che il tubo sia correttamente e completamente inserito. L'inserimento del tubo richiede uno sforzo moderato. Il tubo ed il raccordo non devono essere graffiati o danneggiati durante l'inserimento, in caso contrario potrebbero esserci perdite o malfunzionamenti. Eseguire l'inserimento manualmente, senza l'utilizzo di strumenti, siano essi dedicati o improvvisati.



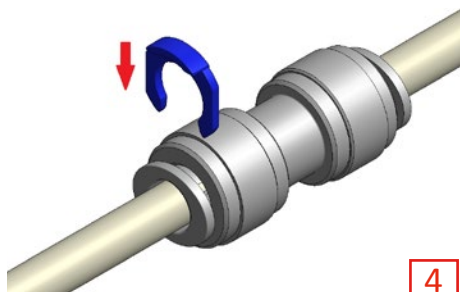
3

To make sure that the fitting is properly connected to the tube, please pull it once without releasing the collet.

Al fine di accertarsi che il tubo sia correttamente inserito, tirare lo stesso senza agire sul colletto di sgancio.

Technical Information

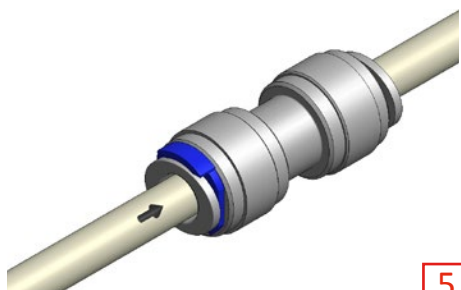
INSTRUCTIONS



4

After pulling, insert a locking clip of the right dimension between the fitting body and the collet.

Dopo la trazione interporre l'apposita clip di bloccaggio della misura adeguata tra il corpo del raccordo ed il colletto di sgancio e spingere nuovamente il tubo sino al posizionamento in sede.

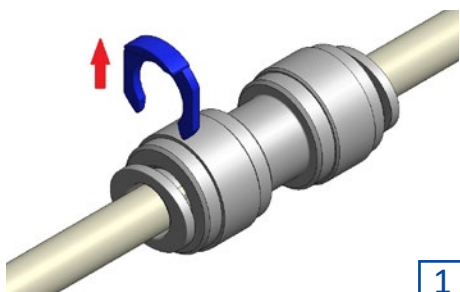


5

Push once more the tube into the fitting for a complete insertion. The use of our locking clips avoids accidental disconnections of the tube and eliminates any play between the tube and the fitting. All the performance limits indicated in this catalogue are related to the systems assembled with locking clips installed.

Spingere nuovamente il tubo nel raccordo fino a completo inserimento. L'utilizzo delle nostre clip di bloccaggio elimina disconnessioni accidentali del tubo ed elimina ogni gioco tra il tubo e il raccordo. Tutti i limiti di performance indicati in questo catalogo sono relativi al sistema assemblato con clip di bloccaggio installate.

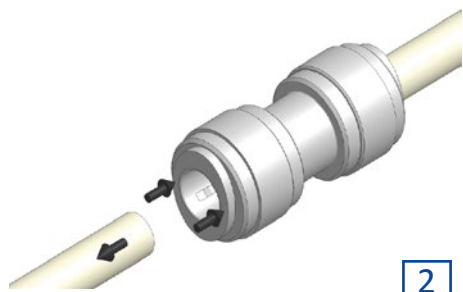
HOW TO DISCONNECT



1

Make sure that the pressure has been completely eliminated from the system before disassembling the tube. In order to disconnect the tube, remove the locking clip first.

Assicurarsi che la pressione sia stata completamente eliminata dal sistema prima di sganciare il tubo. Per sganciare il tubo, togliere la clip di bloccaggio.



2

Push the collet in the direction of the body of the fitting and pull the tube keeping the collet pushed in order to disconnect the tube from the fitting.

Premere il colletto di sgancio in direzione del corpo del raccordo e mantenerlo premuto mentre si sfila il tubo dal raccordo.

Fittings and tubes can be reused providing that they are not ruined and correctly working. It is possible to reuse them only in case of maintenance and only using the same fluid used before. The reuse refers to the push-in system only, being not guaranteed for the threaded part of the fittings. In case of reuse of a tube, the part previously inserted into the fitting has to be cut and the whole tube has to be verified.

I raccordi ed i tubi sono riutilizzabili a condizione che gli stessi siano integri e perfettamente funzionanti. Il riutilizzo deve avvenire sempre e soltanto in caso di manutenzione e per lo stesso fluido precedentemente utilizzato. Il riutilizzo si riferisce al solo sistema di innesto rapido e non è garantito in caso di raccordi filettati. Il tubo riutilizzato deve essere preventivamente verificato e la parte precedentemente inserita nel raccordo deve essere tagliata.

Technical Information

WARNINGS AND PRECAUTIONS

In case of use with chemicals, it is responsibility of the user/customer to previously check the chemical compatibility of the fluid with the construction materials of the fittings and of the tubes.

Do not disassemble or modify the individual products as this may cause product malfunctions, leaks or failure. In any case the tampering (modifications or disassembling) of the products causes the decay of the guarantee.

Do not over-stress the products by rotation, twist, bending, chock, fatigue or other excess forces. This may damage the fittings and cause malfunctions, leaks or failure.

Do not use the products where ambient temperature and/or fluid temperature and pressure may exceed the indicated limits.

Do not use sealing systems other than Teflon tape to seal threaded connections.

If your plumbed line is used as an electrical ground, you must use a jumper wire to provide continuity across plastic fittings and metal tubing.

Never press collets towards the body unless you need to separate the tube from the fitting in an unpressurized line. Please, follow the instructions above.

CDC Pneumatics Corp. reserves the right to modify the products from time-to-time when required by quality improvements and by market requirements. The actual products may differ from the pictures and drawings shown in this catalogue.

We recommend to assemble tubes, fittings, accessories and other products using Fluidfit products indicated as combinable. The failure in using the recommended products cause the decay of the guarantee. The customer is in charge of checking the performance of the products after the installation.

While connecting the tube, please make sure that it is correctly inserted into the proper fitting seat. Please, note that the tube may result well gripped even if it is not completely inserted into the seat. This may cause failures and leakages. In this case push the tube again into the fitting in order to be sure that it is completely inserted.

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

When using theraded fittings, please be careful not to over-torque the fitting as this may damage the fitting and cause a leak or other failure, immediatelly or after the installation.

All the official documentations related to certifications & conformity declarations are available on demand.
This product range is in continuous updating, please check with our sales department for any kind of additional request.

ALL 2D AND 3D TECHNICAL DRAWINGS ARE AVAILABLE ON DEMAND

CONDIZIONI DI UTILIZZO E PRECAUZIONI

In caso di utilizzo con agenti chimici, è responsabilità dell'utente/cliente controllare preventivamente la compatibilità chimica del fluido con i materiali costruttivi dei raccordi e dei tubi.

Non smontare o modificare i singoli raccordi e prodotti poiché questo potrebbe causare malfunzionamenti e/o perdite. In ogni caso la manomissione dei prodotti comporta il decadimento della garanzia.

Non sottoporre i raccordi ad eccessi di stress derivanti da rotazioni, scuotimenti, curvature, colpi, fatica o altri tipi di forze. Ciò potrebbe causare malfunzionamenti e perdite.

Non usare i prodotti in ambienti o con fluidi che eccedono le temperature e le pressioni limite indicate.

Non utilizzare sistemi di tenuta diversi dal nastro teflon per le filettature.

In caso di utilizzo delle condutture come messa a terra si raccomanda di realizzare un ponte per garantire la continuità tra i tubi. I raccordi sono realizzati in materiale plastico non conduttore.

Non premere mai il colletto di sgancio se non in caso di necessità di disconnessione del tubo e seguendo le istruzioni già fornite.

I prodotti possono essere modificati da CDC Pneumatics Corp. in base alle richieste derivanti da miglioramenti di qualità o dal mercato. I prodotti attuali possono differire dai disegni rappresentati a catalogo.

L'accoppiamento tra tubi, raccordi ed accessori deve avvenire con prodotti Fluidfit ed espressamente previsti come abbinabili pena il decadimento di qualsiasi tipo di garanzia. La verifica della funzionalità post installazione è a carico del cliente.

Durante l'inserimento del tubo verificare sempre che lo stesso sia posizionato completamente nella sua sede all'interno del raccordo. E' infatti possibile che il tubo venga graffiato correttamente anche se non completamente in sede. Questa situazione potrebbe causare perdite. Spingere nuovamente il tubo per assicurarsi che lo stesso sia completamente inserito.

Qualora si utilizzino tubi metallici è necessario sbavare le parti terminali del tubo al fine di evitare tagli o altri danni agli o-ring.

In caso di utilizzo di raccordi filettati, si raccomanda di porre la massima attenzione durante l'avvitamento e di non eccedere le coppie di serraggio indicate poiché ciò potrebbe causare rotture e perdite immediate o dopo l'installazione.

Tutte le documentazioni ufficiali legate alle certificazioni e dichiarazioni di conformità sono disponibili su richiesta. Questa gamma di prodotti sono in continuo aggiornamento. Vi preghiamo di verificare con il nostro ufficio vendite eventuali richieste aggiuntive.

TUTTI I DISEGNI 2D E 3D TECNICI SONO DISPONIBILI SU RICHIESTA

Fluidfit

Certifications & Conformity Desclarations



WRAS

Fluidfit standard fittings and flow regulators are conformed to the UK standards for potable water

I raccordi ed i regolatori di flusso Fluidfit sono conformi agli standard previsti dal mercato del Regno Unito per l'acqua potabile



EC 1935/2004

Materials and articles intended to come in contact with food

Materiali e articoli a contatto con alimenti



D.M. 174/2004

Materials and objects can be used in fixed catching installations, adduction treatment and water distribution for human consumption

Materiali e oggetti che possono essere utilizzati negli impianti fissi di captazione, trattamento adduzione e distribuzione delle acque destinate al consumo umano



ICIM
Food contact materials

Products and components in contact with food according to FCM (Food Contact Materials) regulations

Prodotti e componenti a contatto con alimenti secondo disposizioni MOCA



ICIM
Water contact materials

0415CS Products and components in contact with water intended for human consumption (drinking water)

0415CS Prodotti e componenti utilizzati a contatto con acqua destinata al consumo umano (acqua potabile)



ACS

Materials and objects can be used in fixed catching installations, adduction treatment and water distribution for human consumption

Materiali e oggetti che possono essere utilizzati negli impianti fissi di captazione, trattamento adduzione e distribuzione delle acque destinate al consumo umano



NSF 51 / NSF 61

Food Equipment Materials Drinking Water System Components. NSF certificate on behalf of CDC PNEUMATICS CORP.

Materiali delle attrezzature alimentari – Componenti dei sistemi di acqua potabile. Certificazione NSF a nome di CDC PNEUMATICS CORP.



REACH

Entry, estimate, authorization and restriction of the chemical substances

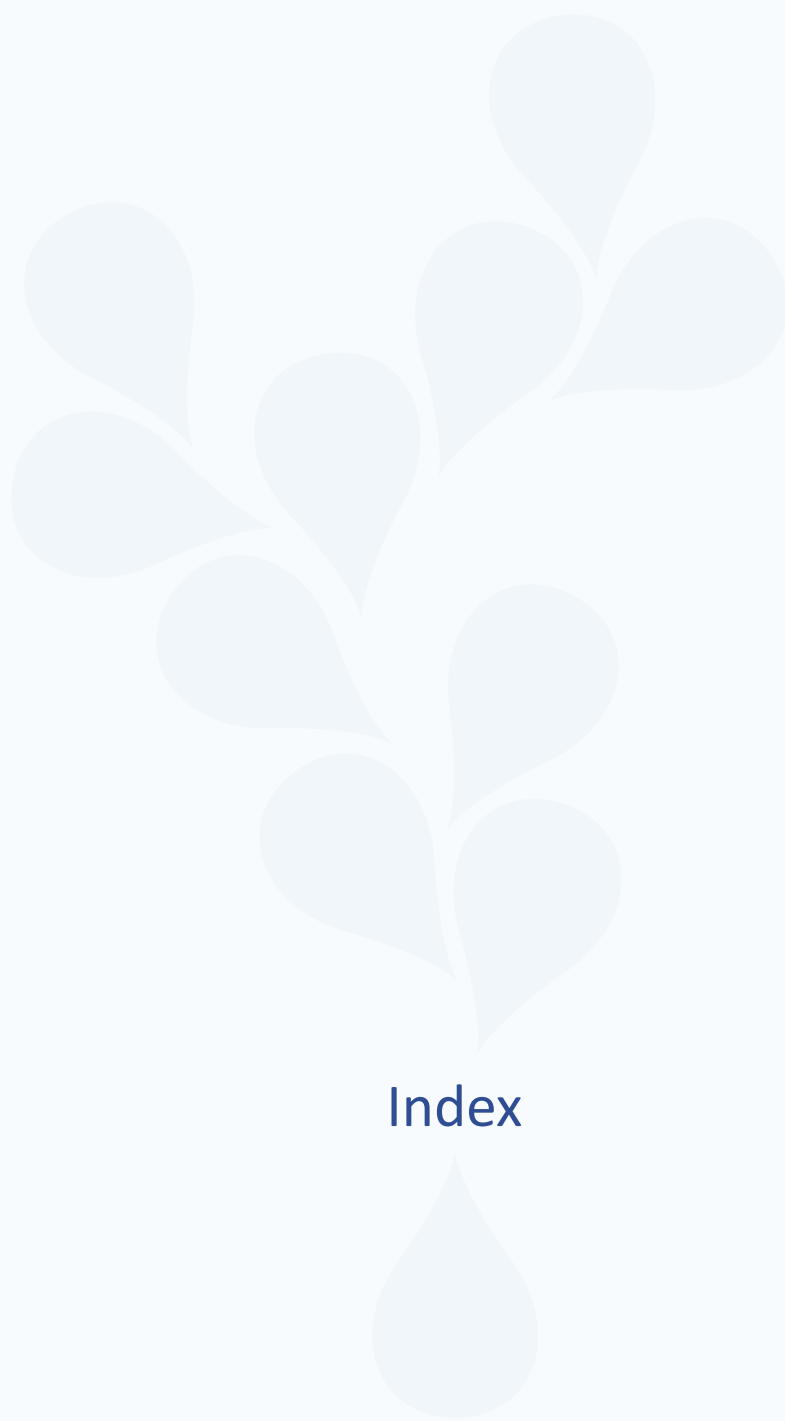
Registrazione, valutazione, autorizzazione e restrizione delle sostanze chimiche



RoHS 3

Restriction of the use of certain hazardous substances in electrical and electronic equipment

Restrizione nell'utilizzo di determinate sostanze pericolose nelle attrezzature elettriche ed elettroniche



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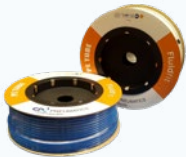


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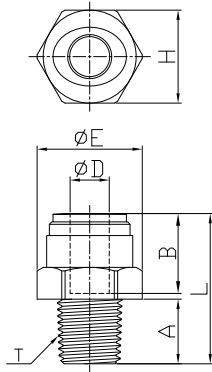
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Metric Fittings



Male connector BSPT - Diritto maschio BSPT

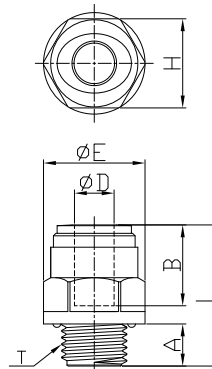
HPC-R



CODE	ØD	T (BSPT)	A	B	ØE	H	L	WEIGHT (g)	
HPC04R01B	4	R 1/8	9,1	14,7	18,5	17	26,0	4,1	100
HPC06R01B	6	R 1/8	9,1	16,1	18,5	17	26,2	3,9	100
HPC06R02B	6	R 1/4	13,1	16,1	18,5	17	26,7	4,2	100
HPC06R03B	6	R 3/8	13,5	16,1	21,0	19	26,6	5,9	50
HPC06R04B	6	R 1/2	16,3	16,1	24,4	22	29,7	9,1	50
HPC08R01B	8	R 1/8	9,1	17,5	21,0	19	28,1	5,2	100
HPC08R02B	8	R 1/4	13,1	17,5	21,0	19	30,6	5,8	50
HPC08R03B	8	R 3/8	13,5	17,5	21,0	19	27,0	5,7	50
HPC08R04B	8	R 1/2	16,3	17,5	24,4	22	30,2	9,2	50
HPC10R02B	10	R 1/4	13,1	20,1	21,0	19	36,0	7,7	50
HPC10R03B	10	R 3/8	13,5	20,1	23,2	21	28,8	6,7	50
HPC10R04B	10	R 1/2	16,3	20,1	24,4	22	32,1	9,6	50
HPC12R03B	12	R 3/8	13,5	24,7	26,5	24	32,2	8,9	50
HPC12R04B	12	R 1/2	16,3	24,7	26,5	24	34,3	11,0	50

Male connector BSPP - Diritto maschio BSPP

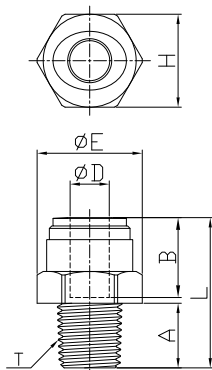
HPC-G



CODE	ØD	T (BSPP)	A	B	ØE	H	L	WEIGHT (g)	
HPC04G01B	4	G 1/8	6,0	14,7	16,6	15	21,9	3,3	100
HPC04G02B	4	G 1/4	8,5	14,7	20,5	18	23,9	4,9	100
HPC06G01B	6	G 1/8	6,0	16,1	16,6	15	24,1	3,3	100
HPC06G02B	6	G 1/4	8,5	16,1	20,5	18	24,1	4,8	100
HPC08G01B	8	G 1/8	6,0	17,5	18,5	17	27,0	5,2	100
HPC08G02B	8	G 1/4	8,5	17,5	20,5	18	28,5	6,1	50
HPC08G03B	8	G 3/8	9,0	17,5	24,0	21	26,5	7,0	50
HPC08G04B	8	G 1/2	12,5	17,5	28,5	26	29,5	11,9	50
HPC10G02B	10	G 1/4	8,5	20,1	21,1	19	30,8	7,2	50
HPC10G03B	10	G 3/8	9,0	20,1	24,2	21	26,3	7,0	50
HPC10G04B	10	G 1/2	12,5	20,1	28,5	26	29,8	11,3	25
HPC12G03B	12	G 3/8	9,0	24,7	27,0	24	34,2	11,6	25
HPC12G04B	12	G 1/2	12,5	24,7	28,5	26	32,7	12,4	25
HPC15G04B	15	G 1/2	12,5	29,4	28,8	26	43,4	17,0	25
HPC15G06B	15	G 3/4	14,5	29,4	39,0	33	39,0	24,5	20
HPC22G06B	22	G 3/4	14,5	33,8	37,0	33	51,0	28,2	20

Male connector NPTF - Diritto maschio NPTF

HPC-N



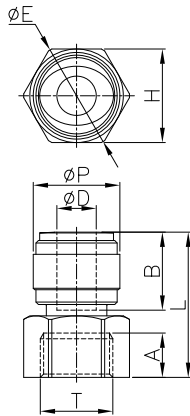
CODE	ØD	T (NPTF)	A	B	ØE	H	L	WEIGHT (g)	
HPC06-N03B	6	N 3/8	13,8	16,9	21,4	19,0	26,1	6,3	50
HPC12-N04B	12	N 1/2	17,8	24,9	27,4	24,5	37,7	13,0	50

Metric Fittings



Female adapter BSPP with internal flat gasket - Diritto femmina BSPP con guarnizione piana interna

HCF-G



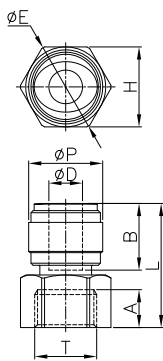
* brass thread
filetto in ottone

CODE	ØD	T (BSPP)	ØP	L	A	B	H	ØE	WEIGHT (G)	☐
HCF04G01B	4	G 1/8	17,6	26,9	6,0	14,7	17	19,2	6,6	50
HCF06G01B	6	G 1/8	17,6	27,1	6,0	16,1	17	19,2	6,1	50
HCF06G02B	6	G 1/4	17,6	29,1	8,5	16,1	19	21,5	7,0	50
HCF06G03B	6	G 3/8	15,0	29,6	9,0	16,1	24	27,3	8,9	50
* HCF06G06B	6	G 3/4	15,5	34,2	7,0	16,1	36,7	41,6	37,6	20
HCF08G01B	8	G 1/8	17,6	27,5	6,0	17,5	17	19,2	6,0	50
HCF08G02B	8	G 1/4	17,6	29,5	8,5	17,5	19	21,5	6,7	50
HCF08G03B	8	G 3/8	17,6	31,0	9,0	17,5	24	27,3	9,7	50
HCF08G04B	8	G 1/2	20,0	38,0	12,5	17,5	27	30,0	13,8	25
HCF08G05B	8	G 5/8	20,0	37,8	13,5	17,5	29	32,0	14,6	25
* HCF08G06B	8	G 3/4	20,0	36,6	7,0	17,5	36,7	41,6	39,2	20
HCF10G02B	10	G 1/4	23,0	34,5	8,5	20,1	19	21,5	10,8	50
HCF10G03B	10	G 3/8	23,0	37,0	9,0	20,1	24	27,3	13,7	25
HCF10G04B	10	G 1/2	20,0	38,3	12,5	20,1	27	30,0	13,3	25
HCF10G05B	10	G 5/8	20,0	38,1	13,5	20,1	29	32,0	14,8	25
* HCF10G06B	10	G 3/4	20,0	36,9	7,0	20,1	36,7	41,6	38,6	20
HCF12G02B	12	G 1/4	23,0	35,2	8,5	24,7	19	21,5	10,3	50
HCF12G03B	12	G 3/8	23,0	37,7	9,0	24,7	24	27,3	13,0	25
HCF12G04B	12	G 1/2	23,0	41,7	12,5	24,7	27	30,0	15,4	25
HCF15G04B	15	G 1/2	28,0	46,2	12,5	29,4	27	30,0	20,1	20
HCF15G06B	15	G 3/4	28,0	45,4	12,0	29,4	33	37,0	25,1	20

HCF15G06B: single plastic bag

Female adapter UNF - Diritto femmina UNF

HCF-UNF



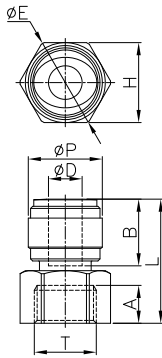
CODE	ØD	T (UNF)	ØP	L	A	B	H	ØE	WEIGHT (G)	☐
HCF06-UNF7/16-20B	6	7/16-20	17,6	30,1	9,5	16,1	17	19	6,5	50
HCF08-UNF7/16-20B	8	7/16-20	17,6	30,5	9,5	17,5	17	19	6,5	50
HCF10-UNF7/16-20B	10	7/16-20	20,0	33,1	9,5	20,1	17	19	7,5	50

Metric Fittings



Female adapter UNS with internal flat gasket - Diritto femmina UNS con guarnizione piana interna

HCF-UNS



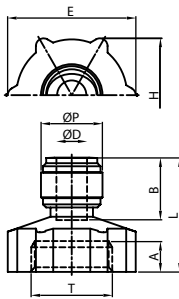
CODE	ØD	T (UNS)	ØP	L	A	B	H	ØE	WEIGHT (G)	
HCF06-UNS7/16-24B	6	7/16-24	17,6	27,1	6,7	16,1	17	19	6,1	50
HCF08-UNS7/16-24B	8	7/16-24	17,6	27,5	6,7	17,5	17	19	6,1	50

Female adapter NH with internal flat gasket - Diritto femmina NH con guarnizione piana interna

HCF-NH



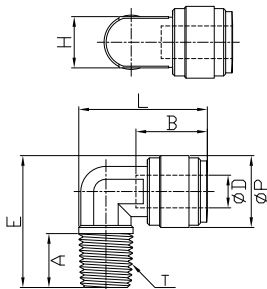
brass thread
filetto in ottone



CODE	ØD	T (NH)	ØP	L	A	B	H	ØE	WEIGHT (G)	
HCF06-NH06B	6	3/4	15,5	34,2	7,0	16,1	36,7	41,6	34,9	20
HCF08-NH06B	8	3/4	20,0	36,6	7,0	17,5	36,7	41,6	36,5	20
HCF10-NH06B	10	3/4	20,0	36,9	7,0	20,1	36,7	41,6	38,1	20

Male elbow BSPT - Gomito maschio BSPT

HPL-R



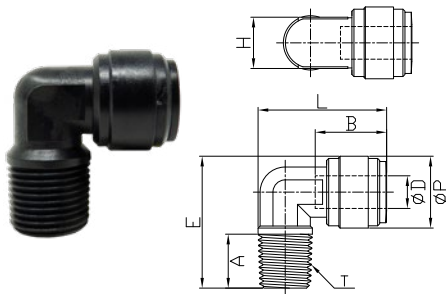
CODE	ØD	T (BSPT)	ØP	A	B	E	H	L	WEIGHT (G)	
HPL04R01B	4	R 1/8	15,0	9,1	14,7	25,6	10	25,2	4,2	100
HPL04R02B	4	R 1/4	15,0	13,1	14,0	30,6	10	26,8	5,6	50
HPL06R01B	6	R 1/8	15,0	9,1	16,1	25,6	10	25,4	4,1	100
HPL06R02B	6	R 1/4	15,0	13,1	16,1	30,6	10	27,0	5,1	50
HPL06R03B	6	R 3/8	17,6	13,5	16,1	32,6	13	33,1	8,4	50
HPL08R02B	8	R 1/4	17,6	13,1	17,5	32,2	13	31,5	7,0	50
HPL08R03B	8	R 3/8	17,6	13,5	17,5	32,6	13	33,5	8,0	50
HPL10R02B	10	R 1/4	20,0	13,1	20,1	34,1	14	32,0	8,1	25
HPL10R03B	10	R 3/8	20,0	13,5	20,1	35,7	14	33,9	9,2	50
HPL12R02B	12	R 1/4	23,6	13,1	24,7	38,3	17	38,2	13,1	25
HPL12R03B	12	R 3/8	23,0	13,5	24,7	38,3	17,0	38,4	13,2	25
HPL12R04B	12	R 1/2	23,0	16,3	24,7	41,4	17,7	40,7	15,6	25

Metric Fittings



Male elbow NPTF - Gomito maschio NPTF

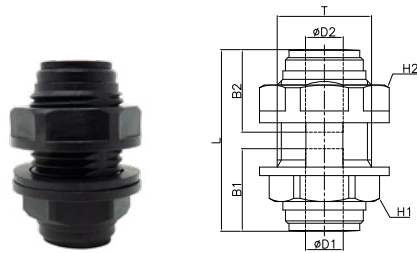
HPL-N



CODE	ØD	T (NPTF)	ØP	A	B	E	H	L	WEIGHT (G)	
HPL06N01B	6	N 1/8	15,5	9,1	16,1	26,4	11	25,6	4,5	100
HPL06N02B	6	N 1/4	15,5	13,2	16,1	31,9	11	27,0	5,9	50
HPL06N03B	6	N 3/8	15,5	13,8	16,1	32,8	11	28,9	7,4	50

Bulkhead connector with gasket - Passaparete con guarnizione

HMM

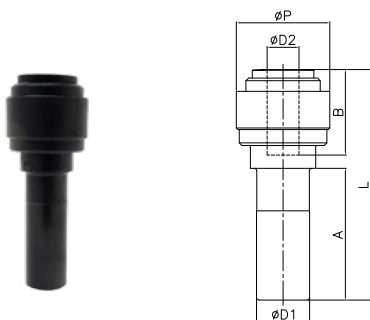


CODE	ØD1	ØD2	T	L	B1	B2	H1 (Fixed)	H2	WEIGHT (G)	
HMM0404B	4	4	M15x1,5p	32,4	14,7	14,7	17	18	6,9	50
HMM0606B	6	6	M17x1,5p	35,7	16,1	16,1	19	21	9,6	50
HMM0808B	8	8	M20x1,75p	38,5	17,5	17,5	21	25,5	14,0	25
HMM1010B	10	10	M24x1,75p	42,2	20,1	20,1	24	28,5	19,5	25
HMM1212B	12	12	M27x2,0p	51,4	24,7	24,7	27	31	28,2	20

CODE	ØD1	ØD2	T	L	B1	B2	H1 (Fixed)	H2	WEIGHT (G)	
HMM0604B	6	4	M17x1,5p	35,5	16,1	16,1	19	21	9,8	50
HMM0806B	8	6	M20x1,75p	38,1	17,5	17,5	21	25,5	14,3	25

Reducer - Riduzione

HGJ



CODE	ØD1	ØD2	ØP	L	A	B	WEIGHT (G)	
HGJ0604B	6	4	13,2	36,7	21,0	14,7	2,4	100
HGJ0804B	8	4	15,5	40,4	22,5	14,7	3,7	100
HGJ0806B	8	6	15,5	40,6	22,5	16,1	3,5	100
HGJ1006B	10	6	17,6	43,4	24,8	16,1	5,2	50
HGJ1008B	10	8	17,6	43,8	24,8	17,5	5,1	50
HGJ1208B	12	8	20,0	51,3	29,5	17,5	7,3	50
HGJ1210B	12	10	20,0	51,6	29,5	20,1	6,9	50
HGJ1510B	15	10	20,0	61,0	35,0	20,1	12,0	25
HGJ1512B	15	12	23,6	61,7	35,0	24,7	11,3	25
HGJ2215B	22	15	28,0	70,4	41,0	29,4	19,7	20

HGJ2215B: single plastic bag

Enlarger - Maggiorazione

CODE	ØD1	ØD2	ØP	L	A	B	WEIGHT (G)	
HGJ0405B	4	5	13,8	35,0	18,0	15,0	2,4	100
HGJ0810B	8	10	20,0	44,9	22,5	20,1	5,4	50

Equal adapter - Adattatore pari

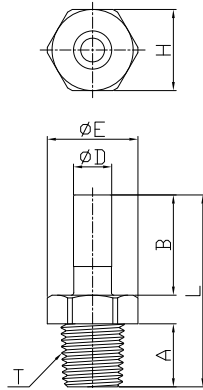
CODE	ØD1	ØD2	ØP	L	A	B	WEIGHT (G)	
HGJ0808B	8	8	17,6	41,5	22,5	17,5	4,5	50

Metric Fittings



Male stem adapter BSPT - Adattatore a codolo maschio BSPT

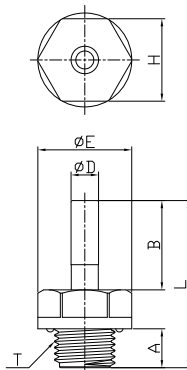
H CJ-R



CODE	ØD	T (BSPT)	A	B	ØE	H	L	WEIGHT (G)	☐
H CJ04R01B	4	R 1/8	9,1	18,0	14,4	13	33,1	1,8	100
H CJ04R02B	4	R 1/4	13,1	18,0	18,5	17	37,1	3,5	100
H CJ06R01B	6	R 1/8	9,1	19,5	14,4	13	34,6	2,0	100
H CJ06R02B	6	R 1/4	13,1	19,5	18,5	17	38,6	3,7	100
H CJ08R01B	8	R 1/8	9,1	21,0	14,4	13	36,1	2,2	100
H CJ08R02B	8	R 1/4	13,1	21,0	18,5	17	40,1	3,8	50
H CJ08R03B	8	R 3/8	13,5	21,0	23,0	21	40,5	5,3	50
H CJ10R02B	10	R 1/4	13,1	24,0	18,5	17	43,1	4,5	50
H CJ10R03B	10	R 3/8	13,5	24,0	23,0	21	44,0	6,1	50
H CJ10R04B	10	R 1/2	16,5	24,0	26,5	24	47,0	9,7	25
H CJ12R03B	12	R 3/8	13,5	28,0	23,0	21	48,0	6,8	50
H CJ12R04B	12	R 1/2	16,5	28,0	26,5	24	51,0	10,2	25

Male stem adapter BSPP - Adattatore a codolo maschio BSPP

H CJ-G



CODE	ØD	T (BSPP)	A	B	ØE	H	L	WEIGHT (G)	☐
H CJ04G01B	4	G 1/8	6,0	18,0	16,6	15	32,5	2,7	100
H CJ04G02B	4	G 1/4	8,5	18,0	20,5	18	35,0	4,2	100
H CJ06G01B	6	G 1/8	6,0	19,5	16,6	15	34,0	2,8	100
H CJ06G02B	6	G 1/4	8,5	19,5	20,5	18	36,5	4,3	100
H CJ08G01B	8	G 1/8	6,0	21,0	16,6	15	35,5	3,0	100
H CJ08G02B	8	G 1/4	8,5	21,0	20,5	18	38,0	4,6	50
H CJ08G03B	8	G 3/8	9,0	21,0	24,2	22	38,5	6,2	50
H CJ10G02B	10	G 1/4	8,5	24,0	20,5	18	41,0	5,2	50
H CJ10G03B	10	G 3/8	9,0	24,0	24,2	22	41,5	6,8	50
H CJ10G04B	10	G 1/2	12,5	24,0	28,5	26	45,0	10,7	25
H CJ12G03B	12	G 3/8	9,0	28,0	24,2	22	45,5	7,3	50
H CJ12G04B	12	G 1/2	12,5	28,0	28,5	26	49,0	11,2	25
H CJ15G03B	15	G 3/8	9,0	35,0	24,2	22,0	52,5	9,5	50
H CJ15G04B	15	G 1/2	12,5	36,0	28,8	26	57,0	13,1	25
H CJ22G04B	22	G 1/2	12,5	41,0	28,4	26	62,0	16,8	20
H CJ22G06B	22	G 3/4	14,5	41,0	39,0	33	67,5	25,8	20

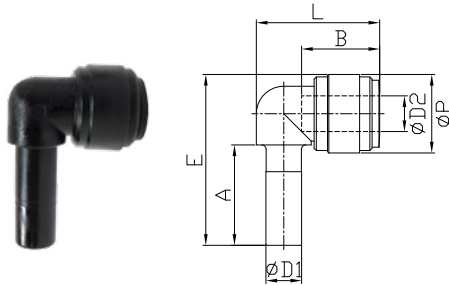
H CJ22G06B: single plastic bag

Metric Fittings



Union elbow tube with stem - Gomito con codolo

HLJ



CODE	ØD1	ØD2	ØP	A	B	E	L	WEIGHT (G)	
HLJ0404B	4	4	13,2	18,0	14,7	30,1	21,9	2,5	100
HLJ0606B	6	6	15,5	21,0	16,1	34,8	25,1	3,7	100
HLJ0808B	8	8	17,6	22,5	17,5	38,3	27,7	5,3	50
HLJ1010B	10	10	20,0	24,8	20,1	43,2	31,3	7,4	50
HLJ1212B	12	12	23,6	29,5	24,7	51,2	39,0	12,6	25
HLJ1515B	15	15	28,0	35,0	29,4	61,3	48,5	21,7	20
HLJ2222B	22	22	35,5	41,0	33,8	75,5	58,0	38,9	20

HLJ2222B: single plastic bag

Reduction - Riduzione

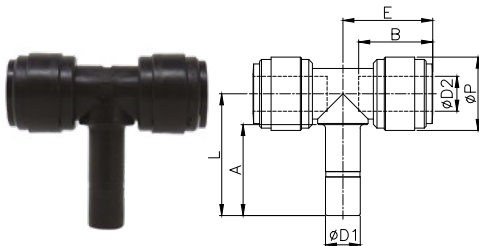
CODE	ØD1	ØD2	ØP	A	B	E	L	WEIGHT (G)	
HLJ1006B	10	6	20,0	24,8	16,1	43,2	30,6	7,8	50
HLJ1008B	10	8	20,0	24,8	17,5	43,2	31,0	8,2	50

Enlarger - Maggiorazione

CODE	ØD1	ØD2	ØP	A	B	E	L	WEIGHT (G)	
HLJ0608B	6	8	17,6	21,0	17,5	36,8	26,0	4,7	100

Branch tee union - T centrale con codolo

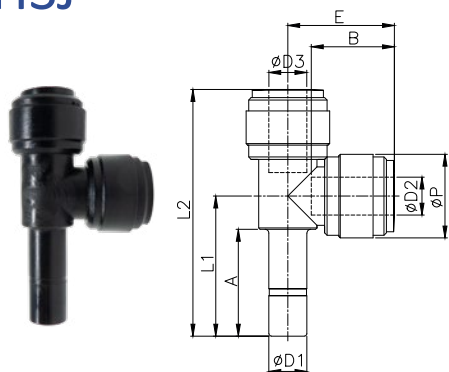
HTJ



CODE	ØD1	ØD2	ØP	L	E	A	B	WEIGHT (G)	
HTJ0808B	8	8	17,6	29,5	21,5	22,5	17,5	8,6	25

Run male tee with stem - T laterale con codolo

HSJ



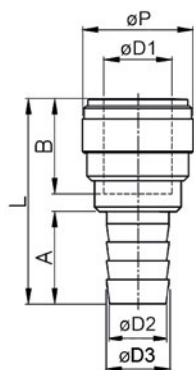
CODE	ØD1	ØD2	ØD3	ØP	A	B	E	L1	L2	WEIGHT (G)	
HSJ0404B	4	4	4	13,2	18,0	14,7	17,7	23,5	41,2	4,5	100
HSJ0606B	6	6	6	15,0	21,0	16,1	20,1	27,0	47,1	5,9	50
HSJ0808B	8	8	8	17,6	22,5	17,5	22,5	29,5	52,0	9,1	50
HSJ1010B	10	10	10	20,0	24,8	20,1	26,1	33,2	59,3	12,5	25
HSJ1212B	12	12	12	23,0	29,5	24,7	31,7	39,4	71,1	19,6	20

Metric Fittings



Barb connector - Portagomma

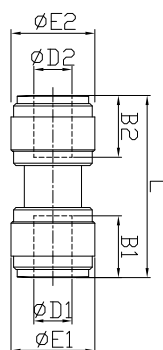
HCBB



CODE	ØD1	ØD2 (INT. TUBE)	ØD3 (BARB)	ØP	L	A	B	WEIGHT (G)	☐
HCBB1210B	12	10	10,0	23,0	46,9	20,0	24,7	8,5	25
HCBB15-1/2B	15	1/2	13,3	28,0	54,2	22,3	29,4	14,0	20
HCBB22-1/2B	22	1/2	13,3	35,7	58,8	22,3	33,8	22,1	20
HCBB22-3/4B	22	3/4	20,25	35,7	66,5	30,0	33,8	25,7	20

Union connector - Intermedio diritto

HUC

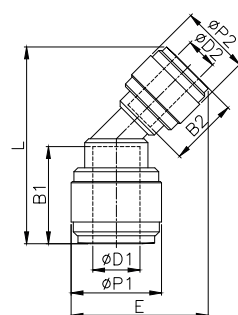


CODE	ØD1	ØD2	B1	B2	ØE1	ØE2	L	WEIGHT (G)	☐
HUC0404B	4	4	14,7	14,7	13,2	13,2	31,8	3,8	100
HUC0606B	6	6	16,1	16,1	15,0	15,0	35,2	4,7	100
HUC0808B	8	8	17,5	17,5	17,6	17,6	38,2	6,9	50
HUC1010B	10	10	20,1	20,1	20,0	20,0	42,7	9,2	50
HUC1212B	12	12	24,7	24,7	23,0	23,0	52,4	14,4	25
HUC1515B	15	15	29,4	29,4	28,0	28,0	61,8	23,4	20
HUC2222B	22	22	33,8	33,8	35,5	35,5	70,6	37,7	9

CODE	ØD1	ØD2	B1	B2	ØE1	ØE2	L	WEIGHT (G)	☐
HUC0604B	6	4	16,1	14,7	15,0	15,0	35,0	5,0	100
HUC0605B	6	5	16,1	14,9	15,0	15,0	35,1	4,9	100
HUC0804B	8	4	17,5	14,7	17,6	17,6	36,6	6,5	50
HUC0806B	8	6	17,5	16,1	17,6	17,6	37,8	7,1	50
HUC1006B	10	6	20,1	16,1	20,0	15,5	42,0	9,8	50
HUC1008B	10	8	20,1	17,5	20,0	20,0	42,4	9,6	50
HUC1208B	12	8	24,7	17,5	23,6	17,6	44,4	11,5	25
HUC1210B	12	10	24,7	20,1	23,0	23,0	51,7	15,0	25

Union elbow 45° - Intermedio a gomito a 45°

HUGL



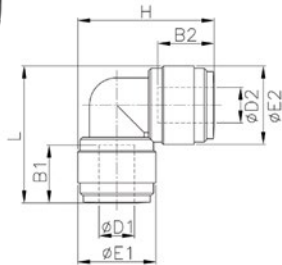
CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L	E	WEIGHT (G)	☐
HUGL1208B	12	8	24,7	17,5	23,0	17,6	50,1	34,9	11,3	25

Metric Fittings



Union elbow - Intermedio a gomito

HUL



CODE	ØD1	ØD2	B1	B2	ØE1	ØE2	L	H	WEIGHT (G)	
HUL0404B	4	4	14,7	14,7	13,2	13,2	24,5	24,5	3,9	100
HUL0606B	6	6	16,1	16,1	15,0	15,0	27,6	27,6	5,1	100
HUL0808B	8	8	17,5	17,5	17,6	17,6	30,7	30,7	7,6	50
HUL1010B	10	10	20,1	20,1	20,0	20,0	35,8	35,8	10,2	50
HUL1212B	12	12	24,7	24,7	23,0	23,0	43,2	43,2	16,4	25
HUL1515B	15	15	29,4	29,4	28,0	28,0	52,2	52,2	27,4	20
HUL2222B	22	22	33,8	33,8	35,5	35,5	63,9	63,9	46,8	9

CODE	ØD1	ØD2	B1	B2	ØE1	ØE2	L	H	WEIGHT (G)	
HUL0604B	6	4	16,1	14,7	15,0	15,0	27,6	27,4	5,2	100
HUL0804B	8	4	17,5	14,7	17,6	13,2	28,3	29,7	5,9	50
HUL0806B	8	6	17,5	16,1	17,6	17,6	30,7	30,3	7,7	50
HUL1006B	10	6	20,1	16,1	23,0	17,6	37,8	36,1	12,6	50
HUL1008B	10	8	20,1	17,5	20,0	20,0	35,8	35,5	10,2	50
HUL1206B	12	6	24,7	16,1	23,0	17,6	38,5	36,1	12,0	50
HUL1208B	12	8	24,7	17,5	23,0	17,6	38,5	36,5	11,9	50
HUL1210B	12	10	24,7	20,1	23,0	23,0	43,2	42,5	17,3	25

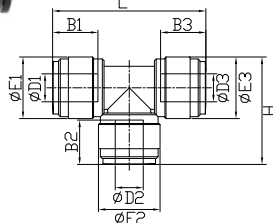


Hybrid solution metric + inch
Soluzione ibrida metrico + pollici

CODE	ØD1	ØD2	B1	B2	ØE1	ØE2	L	H	WEIGHT (G)	
HUL1/4-06B	1/4	6	16,9	16,1	15,5	15,5	28,75	28,75	6,0	100

Union tee - Intermedio a T

HUT



CODE	ØD1	ØD2	ØD3	B1	B2	B3	ØE1	ØE2	ØE3	H	L	WEIGHT (G)	
HUT0404B	4	4	4	14,7	14,7	14,7	13,2	13,2	13,2	24,5	35,8	5,8	100
HUT0606B	6	6	6	16,1	16,1	16,1	15,0	15,0	15,0	27,6	40,2	7,3	50
HUT0808B	8	8	8	17,5	17,5	17,5	17,6	17,6	17,6	30,7	43,8	10,6	50
HUT1010B	10	10	10	20,1	20,1	20,1	20,0	20,0	20,0	35,8	51,6	14,6	25
HUT1212B	12	12	12	24,7	24,7	24,7	23,0	23,0	23,0	43,2	63,4	23,2	20
HUT1515B	15	15	15	29,4	29,4	29,4	28,0	28,0	28,0	52,2	76,4	38,2	9
HUT2222B	22	22	22	33,8	33,8	33,8	35,5	35,5	35,5	63,9	92,3	64,0	6

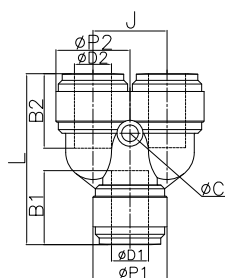
CODE	ØD1	ØD2	ØD3	B1	B2	B3	ØE1	ØE2	ØE3	H	L	WEIGHT (G)	
HUT100608B	10	6	8	20,1	16,1	17,5	20,0	15,0	20,0	32,1	48,6	15,6	25
HUT100610B	10	6	10	20,1	16,1	20,1	20,0	15,0	20,0	32,1	48,7	12,0	25
HUT121012B	12	10	12	24,7	20,1	24,7	23,0	23,0	23,0	42,5	63,4	24,2	20
HUT221222B	22	12	22	33,8	24,7	33,8	35,5	23,0	35,5	55,8	83,0	50,3	6
HUT221522B	22	15	22	33,8	30,4	33,8	35,5	28,0	35,5	61,0	87,0	57,1	6

Metric Fittings



Union Y - Intermedio a Y

HUY

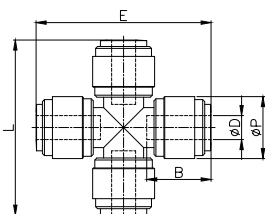


CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L	J	ØC	WEIGHT (G)	
HUY0404B	4	4	14,7	14,7	13,8	13,8	33,7	13,5	3,3	6,7	100
HUY0606B	6	6	16,1	16,1	15,5	15,5	38,8	15,5	3,3	9,2	50
HUY0808B	8	8	17,5	17,5	17,6	17,6	41,0	17,6	4,5	11,6	50
HUY1010B	10	10	20,1	20,1	20,0	20,0	46,2	20,0	4,5	16,0	25
HUY1212B	12	12	24,7	24,7	23,0	23,0	56,4	23,0	4,5	26,3	20

CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L	J	ØC	WEIGHT (G)	
HUY1008B	10	8	20,1	17,5	20,0	20,0	45,9	20,0	4,5	16,8	25

Cross junction - Intermedio a croce

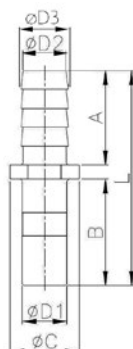
HZA



CODE	ØD	ØP	L	E	B	WEIGHT (G)	
HZA0606B	6	15,5	43,8	43,8	16,1	9,7	25
HZA0808B	8	17,6	47,3	47,3	17,5	15,0	20
HZA1010B	10	20,0	51,6	51,6	20,1	19,1	20

Tube barb connector - Codolo portagomma diritto

HCJB



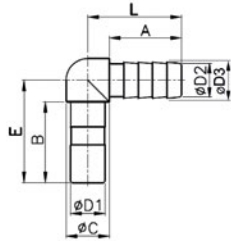
CODE	ØD1	ØD2	ØD3 (INT. TUBE)	ØC	L	A	B	WEIGHT (G)	
HCJB0604B	6	4	4,5	11,4	38,2	18,0	17,2	1,0	100
HCJB0606B	6	6	6,5	11,4	38,2	18,0	17,2	1,1	100
HCJB0806B	8	6	6,5	12,2	40,0	18,0	19,0	1,7	100
HCJB1006B	10	6	6,5	14,7	43,5	18,0	22,5	2,3	100
HCJB1008B	10	8	8,6	14,7	43,5	18,0	22,5	2,7	100
HCJB1010B	10	10	10,6	14,7	45,5	20,0	22,5	3,0	100
HCJB1210B	12	10	10,6	18,5	50,5	20,0	27,5	4,3	100

Metric Fittings



Elbow tube barb connector - Codolo portagomma a gomito

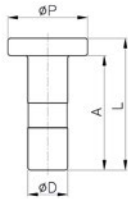
HLJB



CODE	ØD1	ØD2 (INT. TUBE)	ØD3 (BARB)	ØC	L	E	A	B	WEIGHT (G)	
HLJB1006B	10	6	6,5	12,0	24,0	28,5	18,0	22,5	3,0	100
HLJB1008B	10	8	8,6	12,0	24,0	28,5	18,0	22,5	3,4	100

Male plug - Tappo maschio

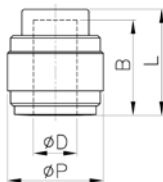
HPP



CODE	ØD	ØP	L	A	WEIGHT (G)	
HPP04B	4	13	22,5	19,0	0,8	200
HPP06B	6	13	24,5	21,0	1,1	200
HPP08B	8	16	26,5	23,0	1,8	100
HPP10B	10	18	30,0	26,0	2,7	100
HPP12B	12	21	34,0	30,0	4,0	100
HPP15B	15	25	40,0	36,0	6,4	50
HPP22B	22	33	45,5	41,0	12,2	25

Female plug - Tappo femmina

HPF



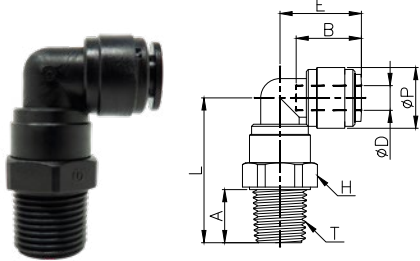
CODE	ØD	ØP	L	B	WEIGHT (G)	
HPF04B	4	13,2	16,9	14,7	2,0	100
HPF06B	6	15,5	18,9	16,1	2,8	100
HPF08B	8	17,6	19,5	17,5	3,6	100
HPF10B	10	20,0	22,1	20,1	4,7	100
HPF12B	12	23,0	26,7	24,7	7,3	50
HPF15B	15	28,0	32,1	29,4	12,6	50
HPF22B	22	35,5	36,6	33,8	20,6	20

Metric Fittings



Male swivel elbow BSPT - Gomito girevole maschio conico BSPT

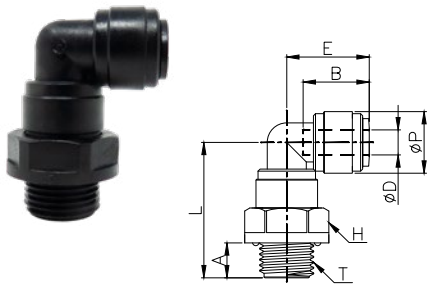
HRPL-R



CODE	ØD	T (BSPT)	ØP	A	B	E	H	L	WEIGHT (G)	
HRPL04R01B	4	R 1/8	13.2	9.1	14.7	17.9	15	29,7	5,9	50
HRPL04R02B	4	R 1/4	13.2	13.1	14.7	17.9	17	33,7	7,3	50
HRPL06R01B	6	R 1/8	15.0	9.1	16.1	20.1	17	31,7	7,2	50
HRPL06R02B	6	R 1/4	15.0	13.1	16.1	20.1	17	35,7	8,0	50
HRPL08R01B	8	R 1/8	17.6	9.1	17.5	21.9	19	33,4	9,9	25
HRPL08R02B	8	R 1/4	17.6	13.1	17.5	21.9	19	37,4	10,7	25
HRPL08R03B	8	R 3/8	17.6	13.5	17.5	21.9	19	37,8	11,4	25
HRPL10R02B	10	R 1/4	20.0	13.1	20.1	25.8	21	41,4	15,1	25
HRPL10R03B	10	R 3/8	20.0	13.5	20.1	25.8	21	41,8	15,2	25
HRPL10R04B	10	R 1/2	20.0	16.5	20.1	25.8	24	44,8	19,5	20
HRPL12R03B	12	R 3/8	23.0	13.5	24.7	31.7	24	48,2	23,4	20
HRPL12R04B	12	R 1/2	23.0	16.5	24.7	31.7	24	51,2	25,9	20

Male swivel elbow BSPP - Gomito girevole maschio cilindrico BSPP

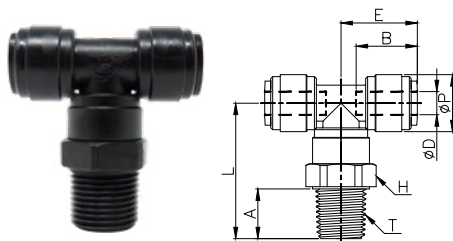
HRPL-G



CODE	ØD	T (BSPP)	ØP	A	B	E	H	L	WEIGHT (G)	
HRPL04G01B	4	G 1/8	13,2	6,0	14,7	17,9	15,0	28,5	6,0	50
HRPL04G02B	4	G 1/4	13,2	8,5	14,7	17,9	18,0	31,0	7,7	50
HRPL06G01B	6	G 1/8	15,0	6,0	16,1	20,1	17,0	30,5	7,7	50
HRPL06G02B	6	G 1/4	15,0	8,5	16,1	20,1	18,0	33,0	8,7	50
HRPL08G01B	8	G 1/8	17,6	6,0	17,5	21,9	18,0	31,9	10,4	25
HRPL08G02B	8	G 1/4	17,6	8,5	17,5	21,9	18,0	34,4	11,0	25
HRPL08G03B	8	G 3/8	17,6	9,0	17,5	21,9	22,0	34,9	12,8	25
HRPL10G02B	10	G 1/4	20,0	8,5	20,1	25,8	22,0	38,0	15,4	25
HRPL10G03B	10	G 3/8	20,0	9,0	20,1	25,8	22,0	38,5	15,8	25
HRPL10G04B	10	G 1/2	20,0	12,5	20,1	25,8	26,0	42,0	19,1	20
HRPL12G03B	12	G 3/8	23,0	9,0	24,7	31,7	26,0	43,7	23,2	20
HRPL12G04B	12	G 1/2	23,0	12,5	24,7	31,7	26,0	47,2	25,2	20

Male swivel tee BSPT - T centrale girevole maschio conico BSPT

HRPT-R



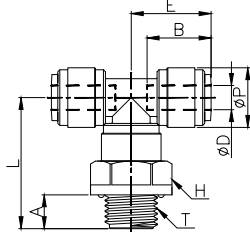
CODE	ØD	T (BSPT)	ØP	A	B	E	H	L	WEIGHT (G)	
HRPT04R01B	4	R 1/8	13,2	9,1	14,7	17,9	15,0	29,7	7,8	50
HRPT04R02B	4	R 1/4	13,2	13,1	14,7	17,9	17,0	33,7	9,2	50
HRPT06R01B	6	R 1/8	15,0	9,1	16,1	20,1	17,0	31,7	9,3	50
HRPT06R02B	6	R 1/4	15,0	13,1	16,1	20,1	17,0	35,7	10,3	25
HRPT08R01B	8	R 1/8	17,6	9,1	17,5	21,9	19,0	33,4	13,1	25
HRPT08R02B	8	R 1/4	17,6	13,1	17,5	21,9	19,0	37,4	14,0	25
HRPT08R03B	8	R 3/8	17,6	13,5	17,5	21,9	19,0	37,8	14,6	25
HRPT10R02B	10	R 1/4	20,0	13,1	20,1	25,8	21,0	41,4	19,5	25
HRPT10R03B	10	R 3/8	20,0	13,5	20,1	25,8	21,0	41,8	19,6	20
HRPT10R04B	10	R 1/2	20,0	16,5	20,1	25,8	24,0	44,8	23,9	20
HRPT12R03B	12	R 3/8	23,0	13,5	24,7	31,7	24,0	42,8	30,2	15
HRPT12R04B	12	R 1/2	23,0	16,5	24,7	31,7	24,0	51,2	32,7	12

Metric Fittings



Swivel male tee BSPP - T centrale girevole maschio cilindrico BSPP

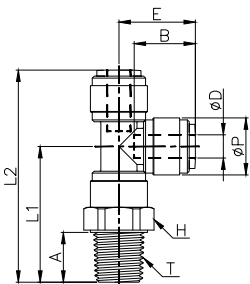
HRPT-G



CODE	ØD	T (BSPP)	ØP	A	B	E	H	L	WEIGHT (G)	☐
HRPT04G01B	4	G 1/8	13,2	6,0	14,7	17,9	15	28,5	7,9	50
HRPT04G02B	4	G 1/4	13,2	8,5	14,7	17,9	18	31,0	9,6	50
HRPT06G01B	6	G 1/8	15,0	6,0	16,1	20,1	17	30,5	10,0	50
HRPT06G02B	6	G 1/4	15,0	8,5	16,1	20,1	18	33,0	11,0	25
HRPT08G01B	8	G 1/8	17,6	6,0	17,5	21,9	18	31,9	13,4	25
HRPT08G02B	8	G 1/4	17,6	8,5	17,5	21,9	18	34,4	14,0	25
HRPT08G03B	8	G 3/8	17,6	9,0	17,5	21,9	22	34,9	15,8	25
HRPT10G02B	10	G 1/4	20,0	8,5	20,1	25,8	22	38,0	19,8	25
HRPT10G03B	10	G 3/8	20,0	9,0	20,1	25,8	22	38,5	20,2	20
HRPT10G04B	10	G 1/2	20,0	12,5	20,1	25,8	26	42,0	23,5	20
HRPT12G03B	12	G 3/8	23,0	9,0	24,7	31,7	26	43,7	30,0	15
HRPT12G04B	12	G 1/2	23,0	12,5	24,7	31,7	26	47,2	32,0	12

Swivel run male tee BSPT - T laterale girevole maschio conico BSPT

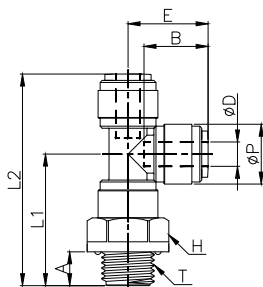
HRST-R



CODE	ØD	T (BSPT)	ØP	A	B	E	H	L1	L2	WEIGHT (G)	☐
HRST04R01B	4	R 1/8	13,2	9,1	14,7	17,9	15	29,7	47,6	7,8	50
HRST04R02B	4	R 1/4	13,2	13,1	14,7	17,9	17	33,7	51,6	9,2	50
HRST06R01B	6	R 1/8	15,0	9,1	16,1	20,1	17	31,7	51,8	9,3	50
HRST06R02B	6	R 1/4	15,0	13,1	16,1	20,1	17	35,7	55,8	10,3	25
HRST08R01B	8	R 1/8	17,6	9,1	17,5	21,9	19	33,4	55,3	13,1	25
HRST08R02B	8	R 1/4	17,6	13,1	17,5	21,9	19	37,4	59,3	14,0	25
HRST08R03B	8	R 3/8	17,6	13,5	17,5	21,9	19	37,8	59,7	14,6	25
HRST10R02B	10	R 1/4	20,0	13,1	20,1	25,8	21	41,4	67,2	19,5	25
HRST10R03B	10	R 3/8	20,0	13,5	20,1	25,8	21	41,8	67,6	19,6	20
HRST10R04B	10	R 1/2	20,0	16,5	20,1	25,8	24	44,8	70,6	23,9	20
HRST12R03B	12	R 3/8	23,0	13,5	24,7	31,7	24	48,2	79,9	30,2	15
HRST12R04B	12	R 1/2	23,0	16,5	24,7	31,7	24	51,2	82,9	32,7	12

Swivel run male tee BSPP - T laterale girevole maschio cilindrico BSPP

HRST-G



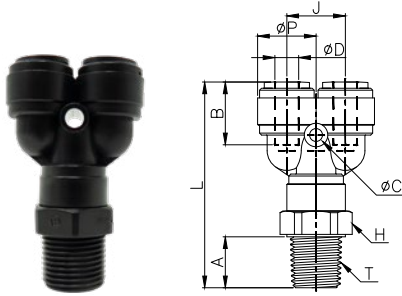
CODE	ØD	T (BSPP)	ØP	A	B	E	H	L1	L2	WEIGHT (G)	☐
HRST04G01B	4	G 1/8	13,2	6,0	14,7	17,9	15,0	28,5	46,4	7,9	50
HRST04G02B	4	G 1/4	13,2	8,5	14,7	17,9	18,0	31,0	48,9	9,6	50
HRST06G01B	6	G 1/8	15,0	6,0	16,1	20,1	17,0	30,5	50,6	10,0	50
HRST06G02B	6	G 1/4	15,0	8,5	16,1	20,1	18,0	33,0	53,1	11,0	25
HRST08G01B	8	G 1/8	17,6	6,0	17,5	21,9	18,0	31,9	53,8	13,4	25
HRST08G02B	8	G 1/4	17,6	8,5	17,5	21,9	18,0	34,4	56,3	14,0	25
HRST08G03B	8	G 3/8	17,6	9,0	17,5	21,9	22,0	34,9	56,8	15,8	25
HRST10G02B	10	G 1/4	20,0	8,5	20,1	25,8	22,0	38,0	63,8	19,8	25
HRST10G03B	10	G 3/8	20,0	9,0	20,1	25,8	22,0	38,5	64,3	20,2	20
HRST10G04B	10	G 1/2	20,0	12,5	20,1	25,8	26,0	42,0	67,8	23,5	20
HRST12G03B	12	G 3/8	23,0	9,0	24,7	31,7	26,0	43,7	75,4	30,0	15
HRST12G04B	12	G 1/2	23,0	12,5	24,7	31,7	26,0	47,2	78,9	32,0	12

Metric Fittings



Swivel male Y BSPT - Y girevole maschio conico BSPT

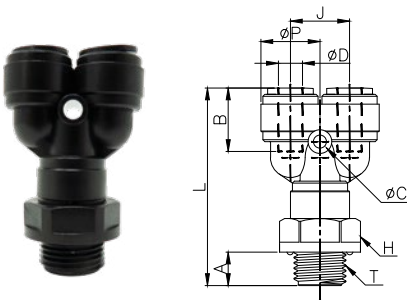
HRWT-R



CODE	ØD	T (BSPT)	ØP	A	B	J	H	L	ØC	WEIGHT (G)	☐
HRWT04R01B	4	R 1/8	13,8	9,1	14,7	13,5	15,0	45,5	3,3	8,7	50
HRWT04R02B	4	R 1/4	13,8	13,1	14,7	13,5	17,0	49,5	3,3	10,1	50
HRWT06R01B	6	R 1/8	15,5	9,1	16,1	15,5	17,0	50,4	3,3	11,6	50
HRWT06R02B	6	R 1/4	15,5	13,1	16,1	15,5	17,0	54,4	3,3	12,5	25
HRWT08R01B	8	R 1/8	17,6	9,1	17,5	17,6	19,0	52,5	4,5	14,0	25
HRWT08R02B	8	R 1/4	17,6	13,1	17,5	17,6	19,0	56,5	4,5	14,9	25
HRWT08R03B	8	R 3/8	17,6	13,5	17,5	17,6	19,0	56,9	4,5	15,5	25
HRWT10R02B	10	R 1/4	20,0	13,1	20,1	20,0	21,0	61,8	4,5	20,9	25
HRWT10R03B	10	R 3/8	20,0	13,5	20,1	20,0	21,0	62,2	4,5	21,0	25
HRWT10R04B	10	R 1/2	20,0	16,5	20,1	20,0	24,0	65,2	4,5	25,3	20
HRWT12R03B	12	R 3/8	23,0	13,5	24,7	23,0	24,0	72,9	4,5	33,3	15
HRWT12R04B	12	R 1/2	23,0	16,5	24,7	23,0	24,0	75,9	4,5	35,8	12

Swivel male Y BSPP - Y girevole maschio cilindrico BSPP

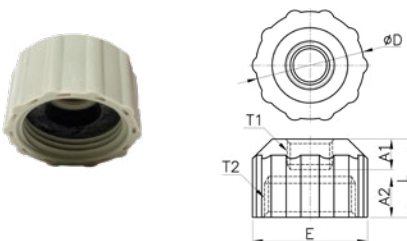
HRWT-G



CODE	ØD	T (BSPP)	ØP	A	B	J	H	L	ØC	WEIGHT (G)	☐
HRWT04G01B	4	G 1/8	13,8	6,0	14,7	13,5	15,0	44,3	3,3	8,8	50
HRWT04G02B	4	G 1/4	13,8	8,5	14,7	13,5	18,0	46,8	3,3	10,5	50
HRWT06G01B	6	G 1/8	15,5	6,0	16,1	15,5	17,0	49,2	3,3	11,9	50
HRWT06G02B	6	G 1/4	15,5	8,5	16,1	15,5	18,0	51,7	3,3	12,9	25
HRWT08G01B	8	G 1/8	17,6	6,0	17,5	17,6	18,0	51,0	4,5	13,9	25
HRWT08G02B	8	G 1/4	17,6	8,5	17,5	17,6	18,0	53,5	4,5	15,1	25
HRWT08G03B	8	G 3/8	17,6	9,0	17,5	17,6	22,0	54,0	4,5	16,8	25
HRWT10G02B	10	G 1/4	20,0	8,5	20,1	20,0	22,0	58,4	4,5	21,2	25
HRWT10G03B	10	G 3/8	20,0	9,0	20,1	20,0	22,0	58,9	4,5	21,6	25
HRWT10G04B	10	G 1/2	20,0	12,5	20,1	20,0	26,0	62,4	4,5	24,9	20
HRWT12G03B	12	G 3/8	23,0	9,0	24,7	23,0	26,0	68,4	4,5	33,1	15
HRWT12G04B	12	G 1/2	23,0	12,5	24,7	23,0	26,0	71,9	4,5	35,1	12

Threaded reducer BSPP with internal flat gasket - Riduzione filettata BSPP con guarnizione piana interna

HUFF



CODE	T1 (BSPP)	T2 (BSPP)	ØD	A1	A2	L	E	WEIGHT (G)	☐
HUFFG02-G06G	G 1/4	G 3/4	31,5	9,5	12,0	23,0	33,5	15,6	100
HUFFG03-G06G	G 3/8	G 3/4	31,5	9,5	12,0	23,0	33,5	14,5	100

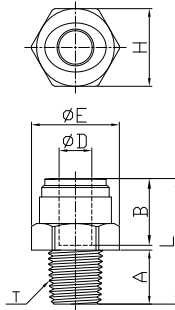


Inch Fittings



Male connector BSPT - Diritto maschio BSPT

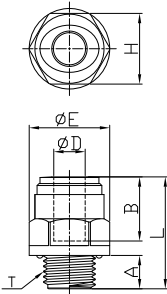
HPC-R



CODE	ØD	T (BSPT)	A	B	ØE	H	L	WEIGHT (G)	☐
HPC1/4-R01G	1/4	R 1/8	8,1	16,4	18,5	17	26,2	4,0	100
HPC1/4-R02G	1/4	R 1/4	12,2	16,1	18,5	17	26,8	3,2	100
HPC1/4-R03G	1/4	R 3/8	13,5	16,9	21,0	19	26,6	5,8	50
HPC3/8-R02G	3/8	R 1/4	13,1	20,2	21,0	19	36,1	7,8	50
HPC3/8-R03G	3/8	R 3/8	13,5	20,2	23,2	21	28,9	6,8	50
HPC1/2-R03G	1/2	R 3/8	13,5	25,1	23,0	21	34,7	11,3	50
HPC1/2-R04G	1/2	R 1/2	16,5	24,9	27,0	24	41,2	10,8	25

Male connector BSPP - Diritto maschio BSPP

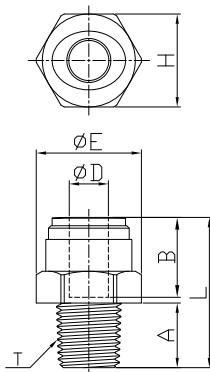
HPC-G



CODE	ØD	T (BSPP)	A	B	ØE	H	L	WEIGHT (G)	☐
HPC3/16-G01G	3/16	G 1/8	6,0	15,0	16,5	15,0	24,1	3,3	100
HPC1/4-G01G	1/4	G 1/8	6,0	16,9	16,5	15,0	24,1	3,6	100
HPC1/4-G02G	1/4	G 1/4	8,5	16,9	20,5	18,0	24,1	4,7	100
HPC5/16-G01G	5/16	G 1/8	6,0	17,5	18,5	17,0	27,0	5,2	100
HPC5/16-G02G	5/16	G 1/4	8,5	17,5	20,5	18,0	28,5	6,1	50
HPC5/16-G03G	5/16	G 3/8	9,0	17,5	24,0	21,0	26,5	7,0	50
HPC3/8-G01G	3/8	G 1/8	6,0	20,2	21,0	19,0	30,9	7,6	50
HPC3/8-G02G	3/8	G 1/4	8,5	20,2	21,1	19,0	30,9	7,3	50
HPC3/8-G03G	3/8	G 3/8	8,5	20,2	24,2	21,0	26,4	7,1	50
HPC3/8-G04G	3/8	G 1/2	12,5	20,2	28,4	26,0	29,9	11,7	25
HPC1/2-G03G	1/2	G 3/8	9,0	23,9	27,0	24,0	34,4	11,3	25
HPC1/2-G04G	1/2	G 1/2	12,5	24,9	28,4	26,0	32,9	12,3	25

Male connector NPTF - Diritto maschio NPTF

HPC-N



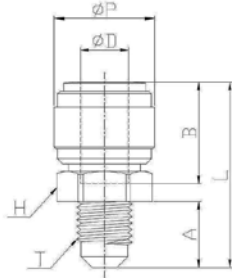
CODE	ØD	T (NPTF)	A	B	ØE	H	L	WEIGHT (G)	☐
HPC5/32-N01G	5/32	N 1/8	9,1	14,7	17,8	15,8 (5/8)	22,2	3,2	100
HPC5/32-N02G	5/32	N 1/4	13,2	14,7	17,8	15,8 (5/8)	25,3	4,3	100
HPC3/16-N01G	3/16	N 1/8	9,1	15,0	17,8	15,8 (5/8)	22,4	3,1	100
HPC3/16-N02G	3/16	N 1/4	13,2	15,0	17,8	15,8 (5/8)	25,5	4,2	100
HPC1/4-N01G	1/4	N 1/8	9,1	16,9	17,8	15,8 (5/8)	27,0	3,9	100
HPC1/4-N02G	1/4	N 1/4	13,2	16,9	17,8	15,8 (5/8)	27,0	4,3	100
HPC1/4-N03G	1/4	N 3/8	13,8	16,9	21,4	19,0 (3/4)	26,1	6,1	50
HPC1/4-N04G	1/4	N 1/2	17,8	16,9	25,0	22,2 (7/8)	30,1	9,6	50
HPC5/16-N01G	5/16	N 1/8	9,1	17,5	21,4	19,0 (3/4)	28,4	5,6	100
HPC5/16-N02G	5/16	N 1/4	13,2	17,5	21,4	19,0 (3/4)	27,9	5,2	50
HPC5/16-N03G	5/16	N 3/8	13,8	17,5	21,4	19,0 (3/4)	26,5	6,0	50
HPC5/16-N04G	5/16	N 1/2	17,8	17,5	25,0	22,2 (7/8)	33,5	11,5	50
HPC3/8-N01G	3/8	N 1/8	9,1	20,2	23,0	20,6 (13/16)	30,4	6,7	50
HPC3/8-N02G	3/8	N 1/4	13,2	20,2	23,0	20,6 (13/16)	34,3	7,9	50
HPC3/8-N03G	3/8	N 3/8	13,8	20,2	23,0	20,6 (13/16)	29,9	7,5	50
HPC3/8-N04G	3/8	N 1/2	17,8	20,2	25,0	22,2 (7/8)	33,9	11,0	50
HPC1/2-N03G	1/2	N 3/8	13,8	25,1	27,4	24,5 (31/32)	38,4	11,7	50
HPC1/2-N04G	1/2	N 1/2	17,8	25,1	27,4	24,5 (31/32)	37,9	12,7	50
NEW HPC5/8-N04G	5/8	N 1/2	17,8	30,1	29,1	24,5 (31/32)	51,2	19,45	20

Inch Fittings



Male connector MFL - Diritto maschio MFL

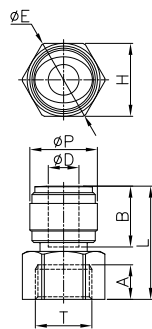
HPC-MFL



CODE	ØD	T (MFL)	A	B	ØP	H	L	WEIGHT (G)	☐
HPC3/8-MFL02G	3/8	1/4	13,2	20,2	20,0	17	36,9	7,3	50

Female adapter BSPP with internal flat gasket - Diritto femmina BSPP con guarnizione piana interna

HCF-G



CODE	ØD	T (BSPP)	ØP	L	A	B	H	ØE	WEIGHT (G)	☐
HCF1/4-G03G	1/4	G 3/8	15,0	29,6	9,0	16,9	24	27,3	8,6	50
HCF1/4-G04G	1/4	G 1/2	20,0	37,6	12,5	16,9	27	30,0	13,9	25
* HCF1/4-G06G	1/4	G 3/4	15,5	34,2	7,0	16,9	36,7	41,6	36,3	20
HCF3/8-G03G	3/8	G 3/8	20,0	37,1	9,0	20,2	24	27,3	13,9	25
HCF3/8-G04G	3/8	G 1/2	20,0	38,4	12,5	20,2	27	30,0	13,4	25
HCF3/8-G05G	3/8	G 5/8	20,0	38,2	13,5	20,2	29	32,0	14,8	25
* HCF3/8-G06G	3/8	G 3/4	20,0	37,0	7,0	20,2	36,7	41,6	39,3	20
HCF1/2-G04G	1/2	G 1/2	23,0	41,9	12,5	25,1	27	30,0	15,5	25
NEW HCF1/2-G06G	1/2	G 3/4	23,6	41,1	9,0	25,1	33	37,0	21,8	20



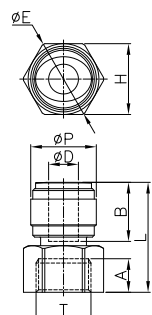
* brass thread filetto in ottone

for dispensing equipments, we highly recommend the following: - per impianti di spillatura, suggeriamo i seguenti:

CODE	ØD	T (BSPP)	ØP	L	A	B	H	ØE	WEIGHT (G)	☐
HCF5/16-G04G-H	5/16	G 1/2	20,0	33,8	9,0	17,5	25	27,5	11,1	50
HCF5/16-G05G-H	5/16	G 5/8	20,0	34,8	9,5	17,5	28	30,4	13	25
HCF3/8-G04G-H	3/8	G 1/2	20,0	34,2	9,0	20,2	25	27,5	10,7	25
HCF3/8-G05G-H	3/8	G 5/8	20,0	35,2	9,5	20,2	28	30,4	13,2	25

Female adapter NPTF - Diritto femmina NPTF

HCF-N



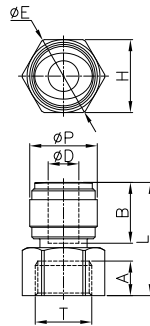
CODE	ØD	T (NPTF)	ØP	L	A	B	H	ØE	WEIGHT (G)	☐
HCF1/4-N01G	1/4	N 1/8	15,5	30,9	11,5	16,9	17	19,0	6,1	50
HCF1/4-N02G	1/4	N 1/4	15,5	30,9	11,5	16,9	19	21,5	6,5	50
HCF5/16-N02G	5/16	N 1/4	20,0	33,8	11,5	17,5	19	21,5	8,8	50
HCF3/8-N02G	3/8	N 1/4	20,0	34,2	11,5	20,2	19	21,5	8,5	50

Inch Fittings



Female adapter UN - Diritto femmina UN

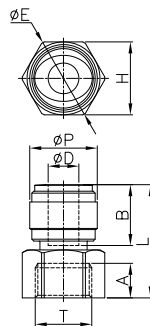
HCF-UN



CODE	ØD	T (UN)	ØP	L	A	B	H	ØE	WEIGHT (G)	☐
HCF3/8-UN1/2-16G	3/8	1/2 - 16	20,0	36,7	12,5	20,2	19	21,5	8,9	50
HCF1/2-UN1/2-16G	1/2	1/2 - 16	23,6	40,6	12,5	25,1	19	21,5	11,8	50

Female adapter UNF - Diritto femmina UNF

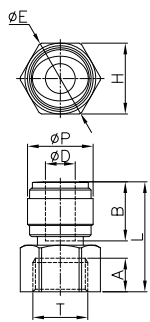
HCF-UNF



CODE	ØD	T (UNF)	ØP	L	A	B	H	ØE	WEIGHT (G)	☐
HCF1/4-UNF7/16-20G	1/4	7/16-20	17,6	30,1	9,5	16,9	17	19,0	6,6	50
HCF5/16-UNF7/16-20G	5/16	7/16-20	17,6	30,5	9,5	17,5	17	19,0	6,5	50
HCF3/8-UNF7/16-20G	3/8	7/16-20	20,0	33,2	9,5	20,2	17	19,0	7,5	50

Female adapter UNS with internal flat gasket - Diritto femmina UNS con guarnizione piana interna

HCF-UNS



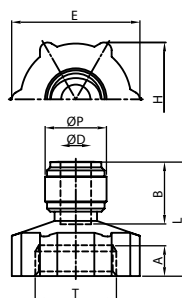
CODE	ØD	T (UNS)	ØP	L	A	B	H	ØE	WEIGHT (G)	☐
HCF1/4-UNS7/16-24G	1/4	7/16-24	17,6	27,1	6,7	16,9	17	19,0	6,0	50
HCF5/16-UNS7/16-24G	5/16	7/16-24	17,6	27,5	6,7	17,5	17	19,0	6,1	50
HCF3/8-UNS7/16-24G	3/8	7/16-24	20,0	30,2	6,7	20,2	17	19,0	7,4	50

Female adapter NH with internal flat gasket - Diritto femmina NH con guarnizione piana interna

HCF-NH



brass thread
filetto in ottone



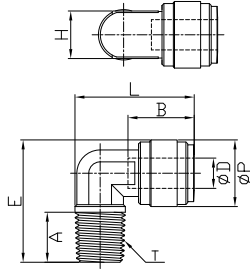
CODE	ØD	T (NH)	ØP	L	A	B	H	ØE	WEIGHT (G)	☐
HCF1/4-NH06G	1/4	3/4	15,5	34,2	7,0	16,9	36,7	41,6	34,6	20
HCF5/16-NH06G	5/16	3/4	20,0	36,6	7,0	17,5	36,7	41,6	36,5	20
HCF3/8-NH06G	3/8	3/4	20,0	37,0	7,0	20,2	36,7	41,6	37,8	20

Inch Fittings



Male elbow BSPT - Gomito maschio BSPT

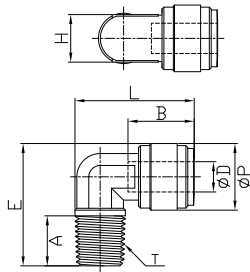
HPL-R



CODE	ØD	T (BSPT)	ØP	A	B	E	H	L	WEIGHT (G)	☐
HPL3/8-R03G	3/8	R 3/8	20,0	13,5	20,2	35,7	14	34,0	9,7	50

Male elbow NPTF - Gomito maschio NPTF

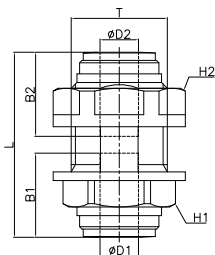
HPL-N



CODE	ØD	T (NPTF)	ØP	A	B	E	H	L	WEIGHT (G)	☐
HPL5/32-N01G	5/32	N 1/8	15,5	9,1	14,7	26,4	11,0 (7/16)	25,4	4,9	100
HPL3/16-N01G	3/16	N 1/8	15,5	9,1	15,0	26,4	11,0 (7/16)	25,6	4,7	100
HPL1/4-N01G	1/4	N 1/8	15,5	9,1	16,9	26,4	11,0 (7/16)	25,6	4,2	100
HPL1/4-N02G	1/4	N 1/4	15,5	13,2	16,9	31,9	11,0 (7/16)	27,0	5,7	50
HPL1/4-N03G	1/4	N 3/8	15,5	13,8	16,9	32,7	11,0 (7/16)	28,9	7,1	50
HPL5/16-N02G	5/16	N 1/4	20,0	13,2	17,5	35,2	14,3 (9/16)	31,4	9,0	50
HPL5/16-N03G	5/16	N 3/8	20,0	13,8	17,5	35,8	14,3 (9/16)	33,5	10,3	50
HPL3/8-N02G	3/8	N 1/4	20,0	13,2	20,2	35,2	14,3 (9/16)	31,8	8,6	50
HPL3/8-N03G	3/8	N 3/8	20,0	13,8	20,2	35,8	14,3 (9/16)	33,9	9,9	50
HPL1/2-N03G	1/2	N 3/8	23,6	13,8	25,1	39,3	17,4 (11/16)	39,7	13,3	25
HPL1/2-N04G	1/2	N 1/2	23,6	17,8	25,1	43,3	17,4 (11/16)	41,5	16,2	25
NEW HPL5/8-N04G	5/8	N 1/2	29,1	17,8	30,1	50,4	22,2 (7/8)	50,5	26,1	20

Bulkhead connector with gasket - Passaparete con guarnizione

HMM



CODE	ØD1	ØD2	T	L	B1	B2	H1 (Fixed)	H2	WEIGHT (G)	☐
HMM5/32-5/32G	5/32	5/32	M15x1,5p	32,4	14,7	14,7	17	18	6,9	50
HMM1/4-1/4G	1/4	1/4	M17x1,5p	35,7	16,9	16,9	19	21	9,4	50
HMM5/16-5/16G	5/16	5/16	M20x1,75p	38,5	17,5	17,5	21	25,5	14,2	25
HMM3/8-3/8G	3/8	3/8	M24x1,75p	42,4	20,2	20,2	24	28,5	20,1	25
HMM1/2-1/2G	1/2	1/2	M27x2,0p	51,8	25,1	25,1	27	31	27,6	20

CODE	ØD1	ØD2	T	L	B1	B2	H1 (Fixed)	H2	WEIGHT (G)	☐
HMM1/4-3/8G	1/4	3/8	M24x1,75p	47,9	16,9	20,2	24	28,5	20,9	25

CODE	ØD1	ØD2	T	L	B1	B2	H1 (Fixed)	H2	WEIGHT (G)	☐
HMM06-1/4G	06	1/4	M17x1,5p	35,7	16,1	16,9	19	21	9,8	50
HMM1/4-06G	1/4	06	M17x1,5p	35,7	16,9	16,1	19	21	9,8	50

Hybrid solution inch + metric
Soluzione ibrida pollici + metrico

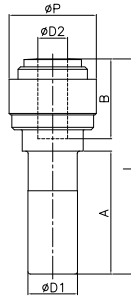


Inch Fittings



Reducer - Riduzione

HGJ



CODE	ØD1	ØD2	ØP	L	A	B	WEIGHT (G)	
HGJ1/4-5/32G	1/4	5/32	13,2	36,7	21,0	14,7	2,4	100
HGJ5/16-1/4G	5/16	1/4	15,5	40,6	22,5	16,9	3,4	100
HGJ3/8-3/16G	3/8	3/16	13,8	41,8	24,8	15,0	3,3	50
HGJ3/8-1/4G	3/8	1/4	17,6	43,9	24,8	16,9	4,7	50
HGJ3/8-5/16G	3/8	5/16	17,6	44,3	24,8	17,5	4,6	50
HGJ1/2-5/16G	1/2	5/16	20,0	51,3	29,5	17,5	7,5	50
HGJ1/2-3/8G	1/2	3/8	20,0	51,7	29,5	20,2	7,1	50

Enlarger - Maggiorazione

Equal adapter - Adattatore pari



Hybrid solution inch + metric
Soluzione ibrida pollici + metrico

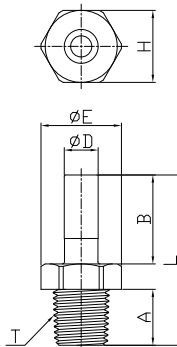
CODE	ØD1	ØD2	ØP	L	A	B	WEIGHT (G)	
HGJ5/16-3/8G	5/16	3/8	20,0	45,0	22,5	20,2	5,9	50
HGJ3/8-1/2G	3/8	1/2	23,6	52,1	24,8	25,1	9,0	50

CODE	ØD1	ØD2	ØP	L	A	B	WEIGHT (G)	
HGJ5/16-5/16G	5/16	5/16	17,6	41,5	22,5	17,5	4,5	50

CODE	ØD1	ØD2	ØP	L	A	B	WEIGHT (G)	
HGJ1/4-06B	1/4	06	15,0	38,8	21,0	16,1	3,0	100
HGJ1/2-15B	1/2	15	28,0	61,7	29,5	29,4	15,2	25

Male stem adapter BSPT - Adattatore a codolo maschio BSPT

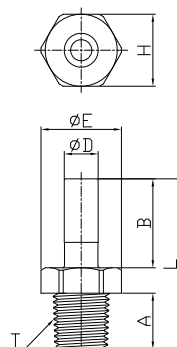
H CJ-R



CODE	ØD	T (BSPT)	A	B	ØE	H	L	WEIGHT (G)	
H CJ1/4-R01G	1/4	R 1/8	9,1	19,0	14,4	13	34,1	2,1	100
H CJ1/2-R03G	1/2	R 3/8	13,5	27,0	23,0	21	47,0	7,3	50
H CJ1/2-R04G	1/2	R 1/2	16,5	27,0	26,5	24	50,0	10,4	25

Male stem adapter NPTF - Adattatore a codolo maschio NPTF

H CJ-N



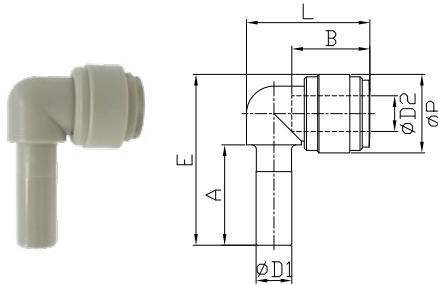
CODE	ØD	T (NPTF)	A	B	ØE	H	L	WEIGHT (G)	
H CJ5/32-N01G	5/32	N 1/8	9,1	18,0	14,1	12,7 (1/2)	33,1	1,9	100
H CJ5/32-N02G	5/32	N 1/4	13,2	18,0	17,8	15,8 (5/8)	37,2	3,6	100
H CJ3/16-N01G	3/16	N 1/8	9,1	18,0	14,1	12,7 (1/2)	33,1	2,0	100
H CJ1/4-N01G	1/4	N 1/8	9,1	19,0	14,1	12,7 (1/2)	34,1	2,1	100
H CJ1/4-N02G	1/4	N 1/4	13,2	19,0	17,8	15,8 (5/8)	38,2	3,8	100
H CJ5/16-N01G	5/16	N 1/8	9,1	20,0	14,1	12,7 (1/2)	35,1	2,8	100
H CJ5/16-N02G	5/16	N 1/4	13,2	20,0	17,8	15,8 (5/8)	39,2	3,9	50
H CJ5/16-N03G	5/16	N 3/8	13,8	20,0	21,5	19,0 (3/4)	40,3	5,9	50
H CJ3/8-N02G	3/8	N 1/4	13,2	23,0	17,8	15,8 (5/8)	42,2	4,5	50
H CJ3/8-N03G	3/8	N 3/8	13,8	23,0	21,5	19,0 (3/4)	43,3	6,5	50
H CJ1/2-N03G	1/2	N 3/8	13,8	27,0	21,5	19,0 (3/4)	47,3	6,9	50
H CJ1/2-N04G	1/2	N 1/2	17,8	27,0	26,8	23,8 (15/16)	51,3	11,4	25

Inch Fittings



Union elbow tube with stem - Raccordo a gomito con codolo

HLJ



CODE	ØD1	ØD2	ØP	A	B	E	L	WEIGHT (G)	
HLJ5/32-5/32G	5/32	5/32	13,2	18,0	14,7	30,1	21,9	2,5	100
HLJ3/16-3/16G	3/16	3/16	13,8	18,5	15,0	31,4	22,5	2,9	100
HLJ1/4-1/4G	1/4	1/4	15,5	21,0	16,9	34,8	25,1	3,7	100
HLJ5/16-5/16G	5/16	5/16	17,6	22,5	17,5	38,3	27,7	5,4	50
HLJ3/8-3/8G	3/8	3/8	20,0	24,8	20,2	43,2	31,4	7,9	50
HLJ1/2-1/2G	1/2	1/2	23,6	29,5	25,1	51,2	39,2	12,7	25

Reduction - Riduzione

CODE	ØD1	ØD2	ØP	A	B	E	L	WEIGHT (G)	
HLJ3/8-1/4G	3/8	1/4	15,5	24,8	16,9	38,6	25,1	4,5	50
HLJ3/8-5/16G	3/8	5/16	20,0	24,8	17,5	43,2	31,0	8,1	50

Enlarger - Maggiorazione

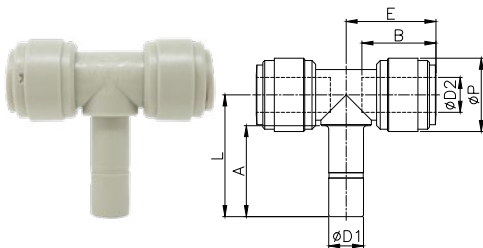


Hybrid solution inch + metric
Soluzione ibrida pollici + metrico

CODE	ØD1	ØD2	ØP	A	B	E	L	WEIGHT (G)	
HLJ1/4-5/16G	1/4	5/16	17,6	21,0	17,5	36,8	25,7	4,5	50
HLJ1/4-06B	1/4	06	15,5	21,0	16,1	34,8	24,1	3,8	100
HLJ3/8-06B	3/8	06	15,5	24,8	16,1	38,6	25,1	4,5	50

Branch tee union - T centrale con codolo

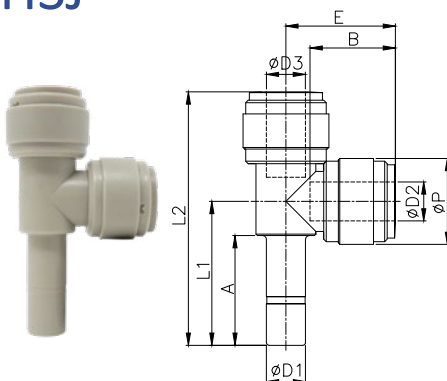
HTJ



CODE	ØD1	ØD2	ØP	L	E	A	B	WEIGHT (G)	
HTJ1/4-1/4G	1/4	1/4	15,5	27,0	20,1	21,0	16,9	6,3	50
HTJ5/16-5/16G	5/16	5/16	17,6	29,5	21,5	22,5	17,5	8,6	25
HTJ3/8-3/8G	3/8	3/8	20,0	33,2	24,5	24,8	20,2	12,2	25

Run male tee with stem - T laterale con codolo

HSJ



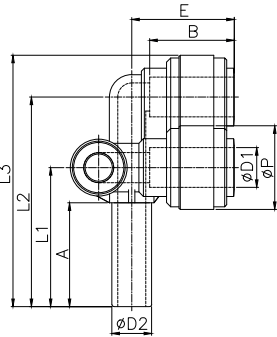
CODE	ØD1	ØD2	ØD3	ØP	A	B1	B2	E	L1	L2	WEIGHT (G)	
HSJ5/32-5/32G	5/32	5/32	5/32	13,2	18,0	14,7	14,7	17,7	23,5	41,2	4,5	100
HSJ1/4-1/4G	1/4	1/4	1/4	15,5	21,0	16,9	16,9	21,0	27,0	48,0	6,4	50
HSJ5/16-5/16G	5/16	5/16	5/16	17,6	22,5	17,5	17,5	22,5	29,5	52,0	9,1	50
HSJ3/8-3/8G	3/8	3/8	3/8	20,0	24,8	20,2	20,2	25,9	33,2	59,1	12,7	25
HSJ1/2-1/2G	1/2	1/2	1/2	23,6	29,5	25,1	25,1	32,5	39,4	71,9	20,7	20
CODE	ØD1	ØD2	ØD3	ØP	A	B1	B2	E	L1	L2	WEIGHT (G)	
HSJ1/2-3/8-1/2G	1/2	3/8	1/2	23,6	29,5	20,2	25,1	31,7	39,4	71,9	22,2	20

Inch Fittings



Pluggable cooling manifold with separate ways - Collettore di raffreddamento innestabile con vie separate

HBUJ

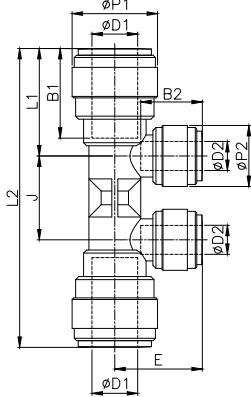


CODE	ØD1	ØD2	ØP	A	B	E	L1	L2	L3	WEIGHT (G)	
HBUJ3/8-3/8G	G 3/8	G 3/8	20,0	24,8	20,0	24,5	33,2	50,05	60,05	20,2	15

technical datasheet available on request - scheda tecnica disponibile su richiesta

Cooling manifold - Collettore di raffreddamento

HUTT



CODE	ØD1	ØD2	ØP1	ØP2	B1	B2	L1	L2	E	J	WEIGHT (G)	
HUTT1/2-3/8-1/2G	1/2	3/8	23,6	23,6	25,1	20,2	32,5	111,1	31,7	46,7	47,5	20

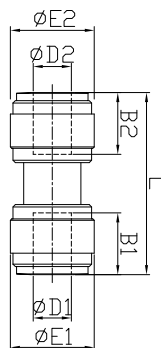
CODE	ØD1	ØD2	ØP1	ØP2	B1	B2	L1	L2	E	J	WEIGHT (G)	
HUTT15-3/8-15G	15	3/8	28,0	20,0	29,4	20,2	35,3	98,0	28,7	27,5	38,6	20



Hybrid solution inch + metric
Soluzione ibrida pollici + metrico

Union connector - Intermedio dritto

HUC



CODE	ØD1	ØD2	B1	B2	ØE1	ØE2	L	WEIGHT (G)	
HUC5/32-5/32G	5/32	5/32	14,7	14,7	13,2	13,2	31,8	3,8	100
HUC3/16-3/16G	3/16	3/16	15,0	15,0	13,8	13,8	32,5	4,0	100
HUC1/4-1/4G	1/4	1/4	16,9	16,9	15,5	15,5	36,2	5,2	100
HUC5/16-5/16G	5/16	5/16	17,5	17,5	17,6	17,6	38,2	6,9	50
HUC3/8-3/8G	3/8	3/8	20,2	20,2	20,0	20,0	42,9	9,7	50
HUC1/2-1/2G	1/2	1/2	25,1	25,1	23,6	23,6	53,2	14,6	25

CODE	ØD1	ØD2	B1	B2	ØE1	ØE2	L	WEIGHT (G)	
HUC5/16-5/32G	5/16	5/32	17,5	14,7	17,6	17,6	36,6	6,5	50
HUC5/16-1/4G	5/16	1/4	17,5	16,9	17,6	17,6	36,8	6,0	50
HUC3/8-3/16G	3/8	3/16	20,2	15,0	20,0	13,8	37,2	6,9	50
HUC3/8-1/4G	3/8	1/4	20,2	16,9	20,0	15,5	38,5	7,3	50
HUC3/8-5/16G	3/8	5/16	20,2	17,5	20,0	20,0	42,5	9,9	50
HUC1/2-5/16G	1/2	5/16	25,1	17,5	23,6	17,6	44,6	11,2	25
HUC1/2-3/8G	1/2	3/8	25,1	20,2	23,6	23,6	52,4	16,3	25
NEW HUC5/8-1/2G	5/8	1/2	30,1	25,1	29,1	23,6	58,2	21,0	20

Reduction - Riduzione



Hybrid solution inch + metric
Soluzione ibrida pollici + metrico

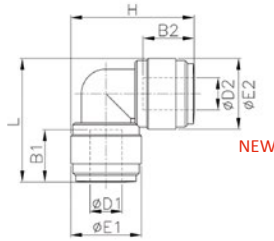
CODE	ØD1	ØD2	B1	B2	ØE1	ØE2	L	WEIGHT (G)	
HUC1/4-06G	1/4	06	16,9	16,1	15,5	15,5	36,2	5,3	100

Inch Fittings



Union elbow - Intermedio a gomito

HUL



NEW

CODE	ØD1	ØD2	B1	B2	ØE1	ØE2	L	H	WEIGHT (G)	
HUL5/32-5/32G	5/32	5/32	14,7	14,7	13,2	13,2	24,5	24,5	4,0	100
HUL3/16-3/16G	3/16	3/16	15,0	15,0	13,8	13,8	25,5	25,5	4,3	100
HUL1/4-1/4G	1/4	1/4	16,9	16,9	15,5	15,5	28,8	28,8	5,5	100
HUL5/16-5/16G	5/16	5/16	17,5	17,5	17,6	17,6	30,7	30,7	7,5	50
HUL3/8-3/8G	3/8	3/8	20,2	20,2	20,0	20,0	35,9	35,9	10,6	50
HUL1/2-1/2G	1/2	1/2	25,1	25,1	23,0	23,0	43,4	43,4	16,7	25
NEW HUL5/8-5/8G	5/8	5/8	30,1	25,1	29,1	29,1	54	54	30,8	20

CODE	ØD1	ØD2	B1	B2	ØE1	ØE2	L	H	WEIGHT (G)	
HUL5/16-5/32G	5/16	5/32	17,5	14,7	17,6	13,2	28,3	29,7	5,9	50
HUL5/16-1/4G	5/16	1/4	17,5	16,9	17,6	17,6	30,7	30,3	7,6	50
HUL3/8-1/4G	3/8	1/4	20,2	16,9	23,0	17,6	37,9	36,1	12,9	50
HUL3/8-5/16G	3/8	5/16	20,2	17,5	20,0	20,0	35,9	35,5	11,1	50
HUL1/2-5/16G	1/2	5/16	25,1	17,5	23,0	17,6	38,7	36,5	11,5	50
HUL1/2-3/8G	1/2	3/8	25,1	20,2	23,0	23,0	43,4	42,6	17,5	25
NEW HUL5/8-1/2G	5/8	1/2	30,1	30,1	29,1	29,1	54	54	24,2	20

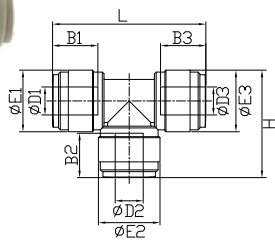


Hybrid solution inch + metric
Soluzione ibrida pollici + metrico

CODE	ØD1	ØD2	B1	B2	ØE1	ØE2	L	H	WEIGHT (G)	
HUL1/2-12G	1/2	12	24,6	24,7	23,0	23,0	43,4	43,2	17,0	25

Union tee - Intermedio a T

HUT



CODE	ØD1	ØD2	ØD3	B1	B2	ØE1	ØE2	H	L	WEIGHT (G)	
HUT5/32-5/32G	5/32	5/32	5/32	14,7	14,7	13,2	13,2	24,5	35,8	5,7	100
HUT3/16-3/16G	3/16	3/16	3/16	15,0	15,0	13,8	13,8	25,5	37,2	6,2	100
HUT1/4-1/4G	1/4	1/4	1/4	16,9	16,9	15,5	15,5	28,8	42,0	8,1	50
HUT5/16-5/16G	5/16	5/16	5/16	17,5	17,5	17,6	17,6	30,7	43,8	10,6	50
HUT3/8-3/8G	3/8	3/8	3/8	20,2	20,2	20,0	20,0	35,9	51,8	15,4	25
HUT1/2-1/2G	1/2	1/2	1/2	25,1	25,1	23,0	23,0	43,4	63,8	23,2	20

CODE	ØD1	ØD2	ØD3	B1	B2	ØE1	ØE2	H	L	WEIGHT (G)	
HUT3/8-1/4-3/8G	3/8	1/4	3/8	20,2	16,9	20,0	15,0	32,1	48,8	12,2	25
HUT1/2-3/8-1/2G	1/2	3/8	1/2	24,6	20,2	23,0	23,0	42,6	63,8	25,3	20

CODE	ØD1	ØD2	ØD3	B1	B2	ØE1	ØE2	H	L	WEIGHT (G)	
HUT3/8-08-3/8G	3/8	08	3/8	20,2	17,5	20,0	20,0	35,5	51,8	13,7	25
HUT3/8-10-3/8G	3/8	10	3/8	20,2	20,1	20,0	15,0	35,8	51,8	15,4	25



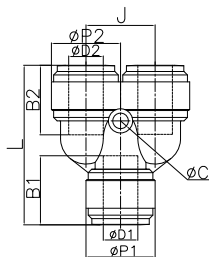
Hybrid solution inch + metric
Soluzione ibrida pollici + metrico

Inch Fittings



Union Y - Intermedio a Y

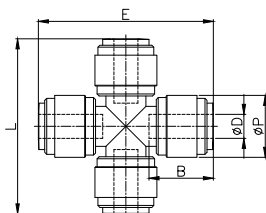
HUY



CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L	J	C	WEIGHT (G)	
HUY5/32-5/32G	5/32	5/32	14,7	14,7	13,8	13,8	33,7	13,5	3,3	6,7	100
HUY3/16-3/16G	3/16	3/16	15,0	15,0	13,8	13,8	34,1	13,5	3,3	6,8	50
HUY1/4-1/4G	1/4	1/4	16,9	16,9	15,5	15,5	38,8	15,5	3,3	8,8	50
HUY5/16-5/16G	5/16	5/16	17,5	17,5	17,6	17,6	41,0	17,6	4,5	11,8	50
HUY3/8-3/8G	3/8	3/8	20,2	20,2	20,0	20,0	46,4	20,0	4,5	16,7	25
HUY1/2-1/2G	1/2	1/2	25,1	25,1	23,0	23,0	56,8	23,0	4,5	25,1	20

Cross junction - Intermedio a croce

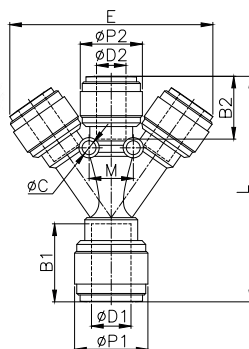
HZA



CODE	ØD	ØP	L	E	B	WEIGHT (G)	
HZA1/4-1/4G	1/4	15,0	41,5	41,5	16,9	9,0	50
HZA5/16-5/16G	5/16	17,6	47,3	47,3	17,5	15,0	20
HZA3/8-3/8G	3/8	20,0	51,8	51,8	20,2	20,2	20

3 ways divider - Intermedio a 3 vie diritto

HTWD



CODE	ØD1	ØD2	ØP1	ØP2	B1	B2	L	E	M	ØC	WEIGHT (G)	
HTWD1/2-3/8G	1/2	3/8	23,6	20,0	25,1	20,2	72,6	65,4	14,2	4,5	27,3	20
HTWD1/2-1/2G	1/2	1/2	23,6	23,6	25,1	25,1	82,9	80,3	16,6	4,5	37,4	20

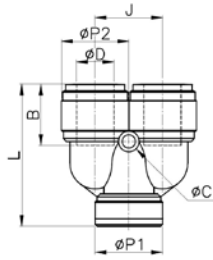
HTWD1/2-3/8G: single plastic bag

Inch Fittings



U-Bend - Doppia giunzione a U

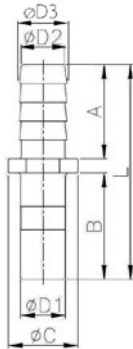
HBU



CODE	ØD	B	ØP1	ØP2	L	J	ØC	WEIGHT (G)	
HBU3/8-3/8G	3/8	20,2	20,0	20,0	41,9	20,0	4,5	16,7	25
HBU1/2-1/2G	1/2	25,1	23,0	23,0	48,3	23,0	4,5	23,9	20

Tube barb connector - Codolo portagomma diritto

HCJB



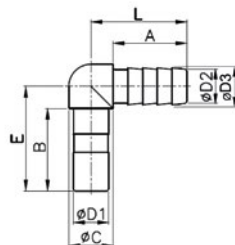
CODE	ØD1	ØD2 (INT. TUBE)	ØD3 (BARB)	ØC	L	A	B	WEIGHT (G)	
HCJB1/4-1/4G	1/4	1/4	6,85	11,8	39,0	18,0	18,0	1,2	100
HCJB5/16-5/16G	5/16	5/16	8,60	12,2	40,0	18,0	19,0	2,1	100
HCJB3/8-3/8G	3/8	3/8	10,0	14,7	45,5	20,0	22,5	2,5	100
HCJB1/2-1/2G	1/2	1/2	13,2	20,5	50,5	20,0	27,5	5,1	50

HCJB5/16-5/16G: 5/16" is equal to 08 mm
HCJB5/16-5/16G: la misura 5/16" è equivalente alla misura metrica da 08 mm

CODE	ØD1	ØD2	BARB	ØC	L	A	B	WEIGHT (G)	
HCJB1/4-3/16G	1/4	3/16	5,3	11,8	38,9	17,9	18,0	1,1	100
HCJB5/16-3/16G	5/16	3/16	5,3	12,2	39,9	17,9	19,1	1,6	100
HCJB5/16-3/8G	5/16	3/8	10,0	12,2	42,0	20,0	22,0	2,3	100
HCJB3/8-1/4G	3/8	1/4	6,85	14,7	43,5	18,0	22,5	2,2	100
HCJB3/8-5/16G	3/8	5/16	8,6	14,7	43,5	18,0	22,5	2,6	100
HCJB3/8-1/2G	3/8	1/2	13,2	20,5	45,5	20,0	22,5	3,8	50
HCJB1/2-3/8G	1/2	3/8	10,0	18,5	50,5	20,0	27,5	4,1	50

Elbow tube barb connector - Codolo portagomma a gomito

HLJB



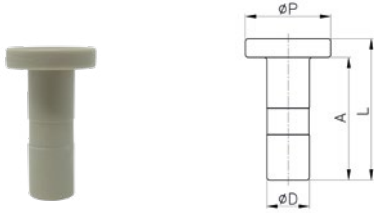
CODE	ØD1	ØD2 (INT. TUBE)	ØD3 (BARB)	ØC	L	E	A	B	WEIGHT (G)	
HLJB3/8-5/16G	3/8	5/16	8,6	12,0	24,0	28,5	18,0	22,5	3,1	100
HLJB3/8-3/8G	3/8	3/8	10,0	12,0	26,0	28,5	20,0	22,5	3,3	100

Inch Fittings



Male plug - Tappo maschio

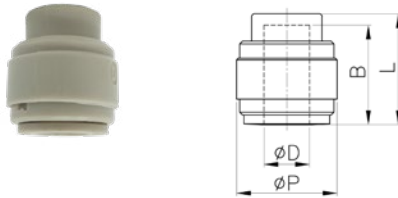
HPP



CODE	ϕD	ϕP	L	A	WEIGHT (G)	
HPP5/32G	5/32	13,0	22,5	19,0	0,8	200
HPP3/16G	3/16	13,0	22,5	19,0	0,9	200
HPP1/4G	1/4	13,0	24,5	21,0	1,2	200
HPP5/16G	5/16	16,0	26,5	23,0	1,8	100
HPP3/8G	3/8	18,0	30,0	26,0	2,7	100
HPP1/2G	1/2	21,5	34,0	30,0	4,4	100

Female plug - Tappo femmina

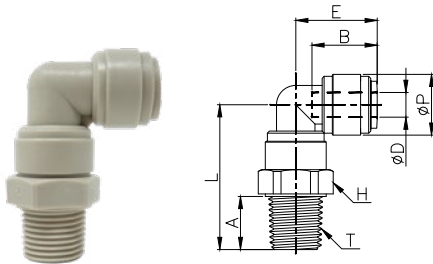
HPF



CODE	ϕD	ϕP	L	B	WEIGHT (G)	
HPF5/32G	5/32	13,2	16,9	14,7	2,0	100
HPF1/4G	1/4	15,5	18,9	16,9	2,7	100
HPF5/16G	5/16	17,6	19,5	17,5	3,6	100
HPF3/8G	3/8	20,0	22,2	20,2	5,0	100
HPF1/2G	1/2	23,0	26,9	24,9	7,0	50

Male swivel elbow BSPT - Gomito girevole maschio BSPT

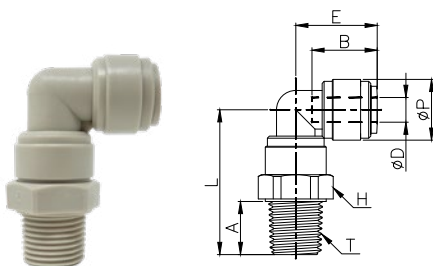
HRPL-R



CODE	ϕD	T (BSPT)	ϕP	A	B	E	H	L	WEIGHT (G)	
HRPL1/2-R03G	1/2	R 3/8	23,0	13,5	24,6	31,9	24	48,2	23,5	20
HRPL1/2-R04G	1/2	R 1/2	23,0	16,5	24,6	31,9	24	51,2	26,0	20

Male swivel elbow NPTF - Gomito girevole maschio NPTF

HRPL-N



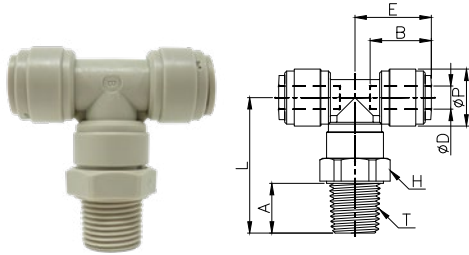
CODE	ϕD	T (NPTF)	ϕP	A	B	E	H	L	WEIGHT (G)	
HRPL5/32-N01G	5/32	N 1/8	13,2	9,1	14,7	17,9	15,8 (5/8)	29,7	6,4	50
HRPL5/32-N02G	5/32	N 1/4	13,2	13,2	14,7	17,9	15,8(5/8)	33,8	7,2	50
HRPL1/4-N01G	1/4	N 1/8	15,5	9,1	16,9	21,0	17,46 (11/16)	32,8	8,2	50
HRPL1/4-N02G	1/4	N 1/4	15,5	13,2	16,9	21,0	17,46 (11/16)	36,9	8,9	50
HRPL5/16-N01G	5/16	N 1/8	17,6	9,1	17,5	21,9	19,0(3/4)	33,8	10,5	25
HRPL5/16-N02G	5/16	N 1/4	17,6	13,2	17,5	21,9	19,0(3/4)	37,9	11,3	25
HRPL5/16-N03G	5/16	N 3/8	17,6	13,8	17,5	21,9	19,0(3/4)	38,5	12,3	25
HRPL3/8-N02G	3/8	N 1/4	20,0	13,2	20,2	25,9	21,4 (27/32)	41,9	15,5	25
HRPL3/8-N03G	3/8	N 3/8	20,0	13,0	20,2	25,9	21,4 (27/32)	41,8	16,4	25
HRPL1/2-N03G	1/2	N 3/8	23,0	13,8	25,1	31,9	23,8(15/16)	48,5	23,3	20
HRPL1/2-N04G	1/2	N 1/2	23,0	17,8	25,1	31,9	23,8(15/16)	51,5	25,9	20

Inch Fittings



Male swivel tee NPTF - T centrale girevole maschio NPTF

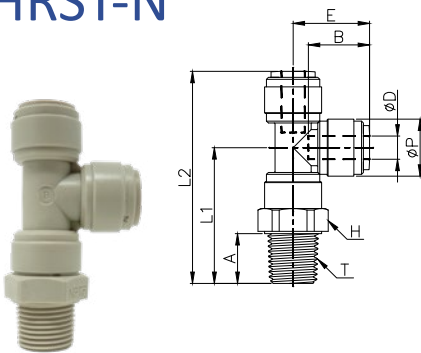
HRPT-N



CODE	ØD	T (NPTF)	ØP	A	B	E	H	L	WEIGHT (G)	☐
HRPT5/32-N01G	5/32	N 1/8	13,2	9,1	14,7	17,8	15,8(5/8)	29,7	8,1	50
HRPT5/32-N02G	5/32	N 1/4	13,2	13,2	14,7	17,9	15,8(5/8)	33,8	8,9	50
HRPT1/4-N01G	1/4	N 1/8	15,5	9,1	16,9	21,0	17,46 (11/16)	32,8	10,2	50
HRPT1/4-N02G	1/4	N 1/4	15,5	13,2	16,9	21,0	17,46 (11/16)	36,9	11,3	25
HRPT5/16-N01G	5/16	N 1/8	17,6	9,1	17,5	21,9	19,0(3/4)	33,8	13,6	25
HRPT5/16-N02G	5/16	N 1/4	17,6	13,2	17,5	21,9	19,0(3/4)	37,9	14,4	25
HRPT5/16-N03G	5/16	N 3/8	17,6	13,8	17,5	21,9	19,0(3/4)	38,5	15,4	25
HRPT3/8-N02G	3/8	N 1/4	20,0	13,2	20,2	25,9	21,4 (27/32)	41,9	20,2	25
HRPT3/8-N03G	3/8	N 3/8	20,0	13,0	20,2	25,9	21,4 (27/32)	41,8	20,4	20
HRPT1/2-N03G	1/2	N 3/8	23,0	13,8	25,1	31,9	23,8(15/16)	48,5	29,8	15
HRPT1/2-N04G	1/2	N 1/2	23,0	17,8	25,1	31,9	23,8(15/16)	51,5	32,4	12

Male swivel run tee NPTF - T laterale girevole maschio NPTF

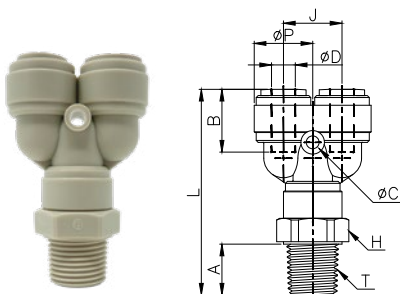
HRST-N



CODE	ØD	T (NPTF)	ØP	A	B	E	H	L1	L2	WEIGHT (G)	☐
HRST5/32-N01G	5/32	N 1/8	13,2	9,1	14,7	17,9	15,8(5/8)	29,7	47,6	8,1	50
HRST5/32-N02G	5/32	N 1/4	13,2	13,2	14,7	17,9	15,8(5/8)	33,8	51,7	8,9	50
HRST1/4-N01G	1/4	N 1/8	15,5	9,1	16,9	21,0	17,46 (11/16)	32,8	53,8	10,2	50
HRST1/4-N02G	1/4	N 1/4	15,5	13,2	16,9	21,0	17,46 (11/16)	36,9	57,9	11,3	25
HRST5/16-N01G	5/16	N 1/8	17,6	9,1	17,5	21,9	19,0(3/4)	33,8	55,8	13,6	25
HRST5/16-N02G	5/16	N 1/4	17,6	13,2	17,5	21,9	19,0(3/4)	37,9	59,9	14,4	25
HRST5/16-N03G	5/16	N 3/8	17,6	13,8	17,5	21,9	19,0(3/4)	38,5	60,5	15,4	25
HRST3/8-N02G	3/8	N 1/4	20,0	13,2	20,2	25,9	21,4 (27/32)	41,9	57,8	20,2	25
HRST3/8-N03G	3/8	N 3/8	20,0	13,0	20,2	25,9	21,4 (27/32)	41,8	67,7	20,4	20
HRST1/2-N03G	1/2	N 3/8	23,0	13,8	25,1	31,9	23,8(15/16)	48,5	80,4	29,8	15
HRST1/2-N04G	1/2	N 1/2	23,0	17,8	25,1	31,9	23,8(15/16)	51,5	83,4	32,4	12

Male swivel Y NPTF - Y girevole maschio NPTF

HRWT-N

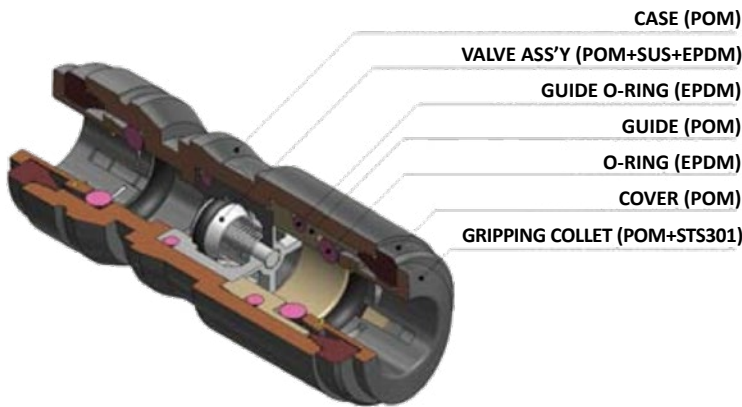


CODE	ØD	T (NPTF)	ØP	A	B	J	H	L	ØC	WEIGHT (G)	☐
HRWT5/32-N01G	5/32	N 1/8	13,8	9,1	14,7	13,5	15,8(5/8)	36,8	3,3	9,1	50
HRWT5/32-N02G	5/32	N 1/4	13,8	13,2	14,7	13,5	15,8(5/8)	49,6	3,3	9,9	50
HRWT1/4-N01G	1/4	N 1/8	15,5	9,1	16,9	15,5	17,46 (11/16)	50,6	3,3	11,0	50
HRWT1/4-N02G	1/4	N 1/4	15,5	13,2	16,9	15,5	17,46 (11/16)	54,7	3,3	12,2	25
HRWT5/16-N01G	5/16	N 1/8	17,6	9,1	17,5	17,6	19,0(3/4)	52,9	4,5	14,8	25
HRWT5/16-N02G	5/16	N 1/4	17,6	13,2	17,5	17,6	19,0(3/4)	57,0	4,5	15,6	25
HRWT5/16-N03G	5/16	N 3/8	17,6	13,8	17,5	17,6	19,0(3/4)	57,6	4,5	16,6	25
HRWT3/8-N02G	3/8	N 1/4	20,0	13,2	20,2	20,0	21,4 (27/32)	62,4	4,5	21,2	25
HRWT3/8-N03G	3/8	N 3/8	20,0	13,0	20,2	20,0	21,4 (27/32)	62,3	4,5	21,7	25
HRWT1/2-N03G	1/2	N 3/8	23,0	13,8	25,1	23,0	23,8(15/16)	73,4	4,5	31,7	15
HRWT1/2-N04G	1/2	N 1/2	23,0	17,8	25,1	23,0	23,8(15/16)	76,4	4,5	34,3	12



Technical Information

MATERIALS



This valve allows one way fluid flow and blocks the reverse flow.

Opening pressure 0,02 Bar.

Compact size and convenient to be used in a narrow space.

Fast installation and easy maintenance.

Questa valvola permette il passaggio del fluido in una direzione e blocca il flusso nel senso opposto.

Pressione di apertura 0,02 Bar.

Dimensione compatta e comoda per essere impiegata in uno spazio ridotto.

Installazione rapida e manutenzione semplice.

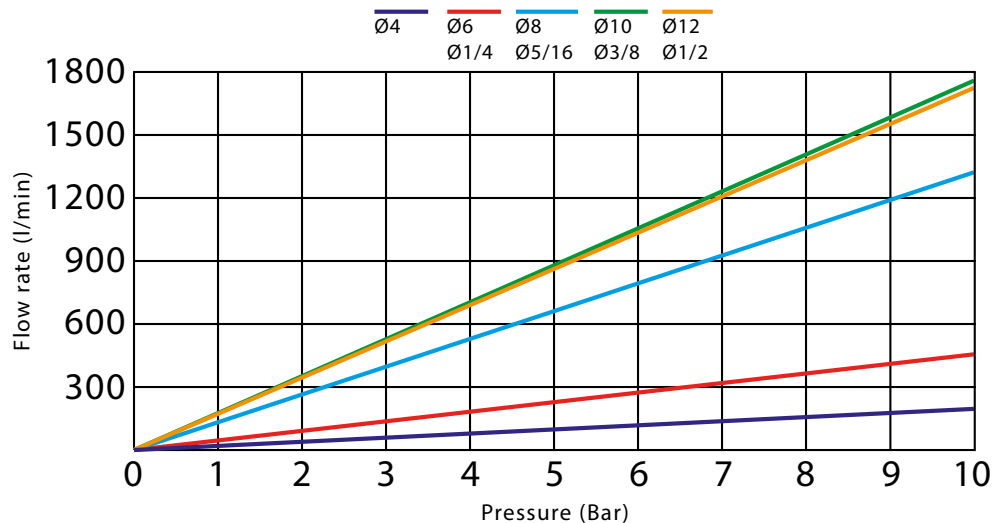
The maximum working temperature is 65 °C for continuous use and 90°C for short-term (5 minutes max) use.

La massima temperatura di utilizzo è di 65°C per un uso continuo e di 90°C per un uso massimo di 5 minuti.

The maximum working pressure is 10 bar at 65 °C for continuous use (10 bar at 90°C for short-term 5 minutes max use).

La massima pressione d'esercizio è di 10 bar a 65°C per un uso continuo (10 bar a 90°C per un uso massimo di 5 minuti).

FLOW CHART

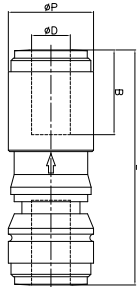


Check Valves



Metric check valve - Valvola unidirezionale metrica

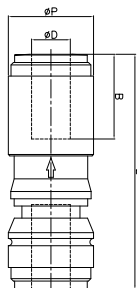
HCVU



CODE	ØD	ØP	L	B	WEIGHT (G)	☐
HCVU0404B	4	13,2	44,4	14,7	6,1	50
HCVU0606B	6	15,5	45,5	16,1	7,4	50
HCVU0808B	8	17,6	48,6	17,5	10,0	50
HCVU1010B	10	20,0	57,6	19,4	14,5	25
HCVU1212B	12	23,6	67,5	23,9	22,1	25

Inch check valve - Valvola unidirezionale in pollici

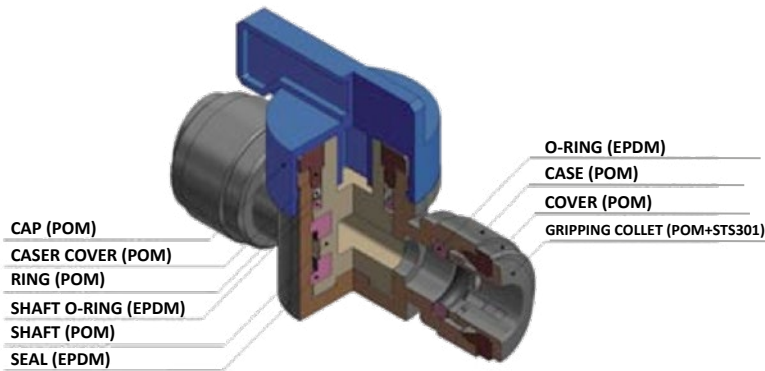
HCVU



CODE	ØD	ØP	L	B	WEIGHT (G)	☐
HCVU5/32-5/32G	5/32	13,2	44,4	14,7	5,5	50
HCVU1/4-1/4G	1/4	15,5	45,5	16,1	7,4	50
HCVU5/16-5/16G	5/16	17,6	48,6	17,5	10,0	50
HCVU3/8-3/8G	3/8	20,0	57,8	19,5	15,0	25
HCVU1/2-1/2G	1/2	23,6	67,9	24,1	21,5	25

Technical Information

MATERIALS



Suitable for air and fluids.
Compact size and convenient to be used in a narrow space.
Maximum flow rate.
The hand valves must only be used in fully open or fully closed position.

Idoneo per aria e fluidi.
Dimensione compatta e comoda per essere impiegata in uno spazio ridotto.
Massima portata.
Le valvole manuali devono essere utilizzate solo in posizione totalmente aperta o totalmente chiusa.

Please check page 4 of the present catalogue for technical data. Page 5 for working pressure and temperatures. Page 5 for instruction and page 8 for warnings and precautions.

Si rimanda a pag. 4 del presente catalogo per i dati tecnici. A pag. 5 per pressioni e temperature d'esercizio. Pag. 6 per istruzioni e pag. 8 per avvertenze e precauzioni.

The maximum working temperature is 65 °C for continuous use and 90°C for short-term (5 minutes max) use.

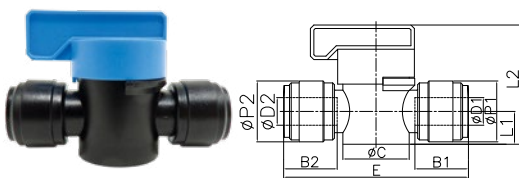
La massima temperatura di utilizzo è di 65°C per un uso continuo e di 90°C per un uso massimo di 5 minuti.

The maximum working pressure is 10 bar at 65 °C for continuous use (10 bar at 90°C for short-term 5 minutes max use).

La massima pressione d'esercizio è di 10 bar a 65°C per un uso continuo (10 bar a 90°C per un uso massimo di 5 minuti).

2 ways metric hand valves - Valvola manuale 2 vie metrica

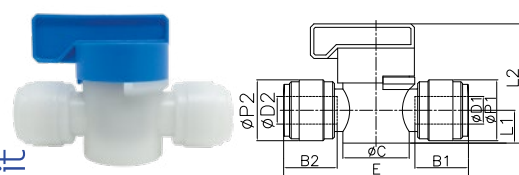
HBVU



CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L1	L2	E	ØC	WEIGHT (G)	
HBVU0606B	6	6	16,1	16,1	15,5	15,5	9,5	34,5	51,7	19,2	16,0	25
HBVU0808B	8	8	17,5	17,5	17,6	17,6	9,5	34,5	53,5	19,2	17,4	25
HBVU1010B	10	10	20,1	20,1	20,0	20,0	12,5	42,3	63,0	24,2	29,0	15
HBVU1212B	12	12	23,7	23,7	23,0	23,0	12,5	42,3	70,4	24,2	35,4	15

2 ways inch hand valves - Valvola manuale 2 vie in pollici

HBVU



CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L1	L2	E	ØC	WEIGHT (G)	
HBVU 1/4-1/4W	1/4	1/4	16,1	16,1	15,5	15,5	9,5	34,5	51,7	19,2	16,0	25
HBVU 5/16-5/16W	5/16	5/16	17,5	17,5	17,6	17,6	9,5	34,5	53,5	19,2	17,4	25
HBVU 3/8-3/8W	3/8	3/8	20,2	20,2	20,0	20,0	12,5	42,3	63,2	24,2	29,0	15
HBVU 1/2-1/2W	1/2	1/2	23,9	23,9	23,0	23,0	12,5	42,3	70,8	24,2	35,4	15

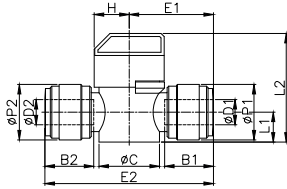
HBVU1/4-1/4W and HBVU1/2-1/2W valves without WRAS certification
Valvole HBVU1/4-1/4W e HBVU1/2-1/2W non certificate WRAS

Hand Valves



2 ways metric hand valves with short handle, to be used with brackets (HMCP)
 Valvola manuale 2 vie metrica con manopola corta, per utilizzo in batteria con staffa HMCP

HBVU-S

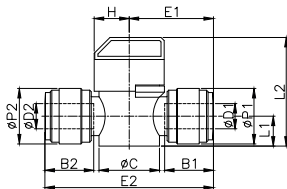


CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L1	L2	E1	E2	H	ØC	WEIGHT (G)	
HBVU-S0606B	6	6	16,1	16,1	15,5	15,5	9,5	34,5	25,9	51,7	11,1	19,2	15,8	25
HBVU-S0808B	8	8	17,5	17,5	17,6	17,6	9,5	34,5	26,8	53,5	11,1	19,2	17,2	25
HBVU-S1010B	10	10	20,1	20,1	20,0	20,0	12,5	42,3	31,5	63,0	13,7	24,2	28,6	15
HBVU-S1212B	12	12	23,7	23,7	23,0	23,0	12,5	42,3	35,2	70,4	13,7	24,2	35,0	15

HBVU-S valve without WRAS certification
 Valvola HBVU-S non certificata WRAS

2 ways inch hand valves with short handle, to be used with brackets (HMCP)
 Valvola manuale 2 vie in pollici con manopola corta, per utilizzo in batteria con staffa HMCP

HBVU-S

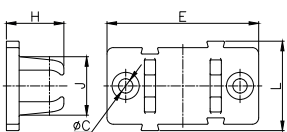


CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L1	L2	E1	E2	H	ØC	WEIGHT (G)	
HBVU-S1/4-1/4W	1/4	1/4	16,1	16,1	15,5	15,5	9,5	34,5	25,9	51,7	11,1	19,2	15,8	25
HBVU-S5/16-5/16W	5/16	5/16	17,5	17,5	17,6	17,6	9,5	34,5	26,8	53,5	11,1	19,2	17,2	25
HBVU-S3/8-3/8W	3/8	3/8	20,2	20,2	20,0	20,0	12,5	42,3	31,6	63,2	13,7	24,2	28,6	15
HBVU-S1/2-1/2W	1/2	1/2	23,9	23,9	23,0	23,0	12,5	42,3	35,4	70,8	13,7	24,2	35,0	15

HBVU-S valve without WRAS certification
 Valvola HBVU-S non certificata WRAS

Bracket to be used with hand valves HBVU-S - Staffa da utilizzare con valvole manuali HBVU-S

HMCP



CODE	E	L	H	J	ØC	WEIGHT (G)	
HMCP06-1/4	47,5	28,0	18,0	18,3	4,5	3,8	25
HMCP10-3/8	55,2	34,0	22,6	22,0	4,5	6,3	25

HMCP06-1/4 bracket compatible with HBVU-S Ø6 and Ø1/4
 HMCP10-3/8 bracket compatible with Ø10 and Ø3/8
 Staffa HMCP06-1/4 compatibile con HBVU-S Ø6 e Ø1/4
 Staffa HMCP10-3/8 compatibile con HBVU-S Ø10 e Ø3/8



HMCP can be used in series with HBVU-S
 Soluzione in batteria di staffe HMCP con valvola manuale HBVU-S

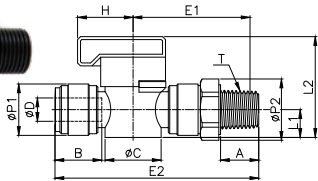
SIZES			
	White	Black	Grey
06-1/4	HMCP06-1/4W	HMCP06-1/4B	HMCP06-1/4G
10-3/8	HMCP10-3/8W	HMCP10-3/8B	HMCP10-3/8G

Hand Valves



2 ways metric hand valves male thread BSPT - Valvola manuale 2 vie metrica BSPT

HBVL-R

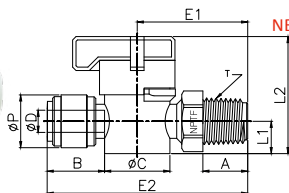


CODE	ØD	T (BSPT)	B	A	ØP1	ØP2	L1	L2	E1	E2	H	ØC	WEIGHT (G)	☐
HBVL10R03B	10	R 3/8	20,1	13,5	20,0	23,0	12,5	42,3	48,3	79,8	26,3	24,2	34,3	15

HBVL-R valve without WRAS certification
Valvola HBVL-R non certificata WRAS

2 ways hand valves for inch tube with male thread NPT - Valvola manuale 2 vie diritta in pollici con filetto NPT

HBVC-N

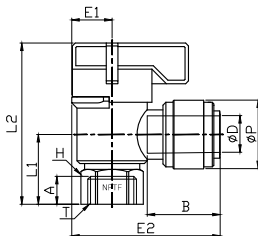


CODE	ØD	T (NPT)	B	A	ØP	L1	L2	E1	E2	ØC	WEIGHT (G)	☐
NEW HBVC1/4-N02W	1/4	N 1/4	16,9	13,2	15,5	9,5	34,4	32,5	59,0	19,2	16,8	25
NEW HBVC3/8-N03W	3/8	N 3/8	20,2	13,8	20,0	12,5	42,1	36,9	69,2	24,2	29,3	20

HBVC-N valve not currently certified
Valvola HBVC-N non certificata al momento

2 ways elbow hand valve for inch tube with female thread NPT - Valvola manuale 2 vie a gomito in pollici con filetto NPT

HTVF-N

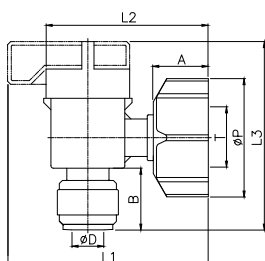


CODE	ØD	T (NPT)	B	A	ØP	L1	L2	E1	E2	H	WEIGHT (G)	☐
NEW HTVF3/8-N02W	3/8	N 1/4	20,2	11,5	20,0	24,0	55,5	13,9	46,2	19,0	27,2	20
NEW HTVF1/2-N02W	1/2	N 1/4	25,1	11,5	23,6	24,0	55,5	13,9	51,1	19,0	30,5	20
NEW HTVF5/8-N06W	5/8	N 3/4	30,1	15,0	29,1	32,0	63,5	13,9	62,3	33,0	46,0	20

HTVF-N valve not currently certified
Valvola HTVF-N non certificata al momento

Elbow inch hand valve female thread BSPP - Valvola manuale 2 vie a gomito femmina BSPP in pollici

HESV



CODE	ØD	T (BSPP)	ØP	A	B	L1	L2	L3	WEIGHT (G)	☐
HESV3/8-G04G	3/8	G 1/2	38,7	18,0	20,2	65,75	53,15	61,7	35,3	20

HESV valve without WRAS certification
Valvola HESV non certificata WRAS

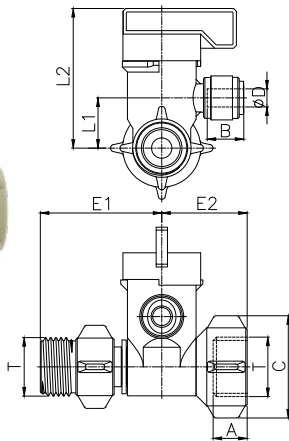
technical datasheet available on request - scheda tecnica disponibile su richiesta

Hand Valves



3 ways hand valve BSPP 1/2" with diverting connection for tube 1/4" - Valvola manuale 3 vie BSPP 1/2" con derivazione centrale per tubo 1/4"

HAAV



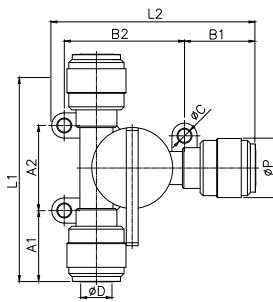
CODE	ØD	B	T (BSPP)	A	L1	L2	E1	E2	C	WEIGHT (G)	
HAAV1/4-G04G	1/4	16,9	G 1/2	6,5	17,7	49,2	43,3	30,1	36,0	48,4	20

HAAV1/4-G04G: single plastic bag

HAAV valve without WRAS certification
Valvola HAAV non certificata WRAS

3 ways inch hand valve with tee direction - Valvola manuale 3 vie con direzione a T in pollici

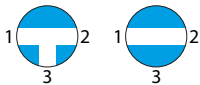
HASV



CODE	ØD	ØP	A1	A2	B1	B2	L1	L2	WEIGHT (G)	
HASV3/8-3/8G	3/8	20,0	24,1	28,8	24,1	40,7	77,0	69,05	44,8	20

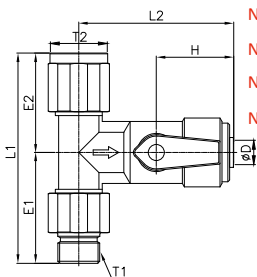
HASV valve without WRAS certification
Valvola HASV non certificata WRAS

technical datasheet available on request - scheda tecnica disponibile su richiesta



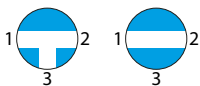
3 ways inch hand valve with tee direction and M/F brass fittings BSPP - Valvola manuale a 3 vie con direzione a T in pollici e filetti M/F BSPP in ottone

HACV



CODE	ØD	T1	T2	E1	E2	H	L1	L2	WEIGHT (G)	
NEW HACV1/4-G03W	1/4	G 3/8	G 3/8	43,45	38,95	30,35	82,4	60,7	105,6	10
NEW HACV1/4-G04W	1/4	G 1/2	G 1/2	43,45	38,95	30,35	82,4	60,7	99,9	10
NEW HACV3/8-G03W	3/8	G 3/8	G 3/8	43,45	38,95	30,6	82,4	61,0	105,0	10
NEW HACV3/8-G04W	3/8	G 1/2	G 1/2	43,45	38,95	30,6	82,4	61,0	99,3	10

HACV valve not currently certified
Valvola HACV non certificata al momento

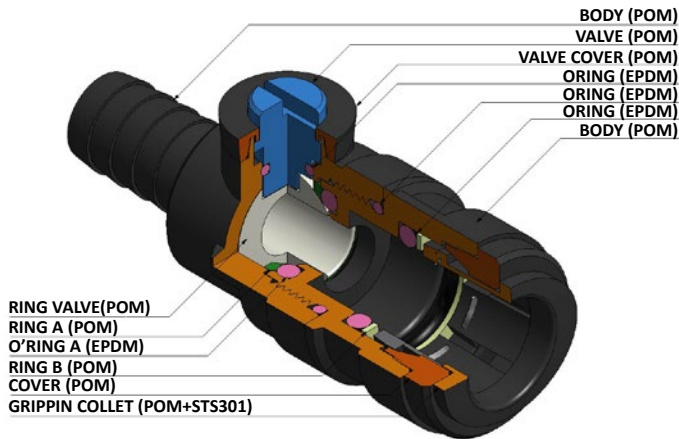


Valved Barb Connector



Technical Information

MATERIALS



These valves are specially designed for mounting with flexible tubes and allow to stop the flow in case of need.

Queste valvole sono appositamente studiate per il montaggio con tubi flessibili e consentono di arrestare il flusso in caso di necessità.

Please check page 4 of the present catalogue for technical data. Page 5 for working pressure and temperatures. Page 5 for instruction and page 8 for warnings and precautions.

Si rimanda a pag. 4 del presente catalogo per i dati tecnici. A pag. 5 per pressioni e temperature d'esercizio. Pag. 6 per istruzioni e pag. 8 per avvertenze e precauzioni.

The maximum working temperature is 65 °C for continuous use and 90°C for short-term (5 minutes max) use.

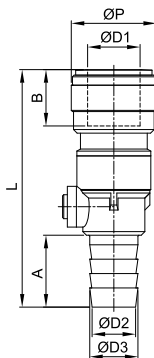
La massima temperatura di utilizzo è di 65°C per un uso continuo e di 90°C per un uso massimo di 5 minuti.

The maximum working pressure is 10 bar at 65 °C for continuous use (10 bar at 90°C for short-term 5 minutes max use).

La massima pressione d'esercizio è di 10 bar a 65°C per un uso continuo (10 bar a 90°C per un uso massimo di 5 minuti).

Valved barb connector - Portagomma valvolato

HCVB

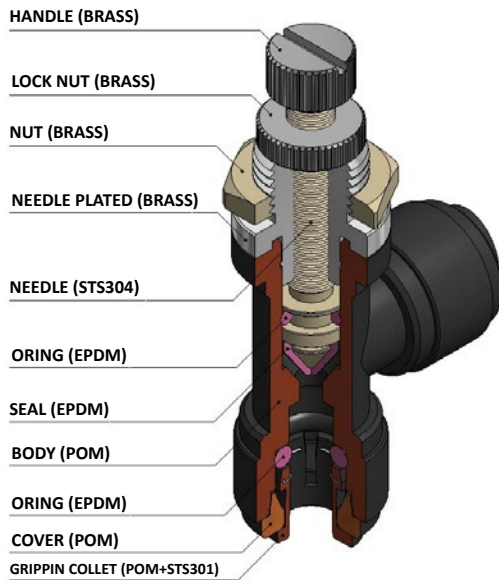


CODE	ØD1	ØD2 (INT. TUBE)	ØD3 (BARB)	ØP	L	A	B	WEIGHT (G)	
HCVB15-1/2B	15	1/2	13,3	28,5	74,2	22,3	29,4	29,3	20
HCVB22-1/2B	22	1/2	13,3	35,7	87,3	22,3	33,8	38,9	20
HCVB22-3/4B	22	3/4	20,25	35,7	99,0	30,0	33,8	47,7	20



Technical Information

FLOW REGULATORS BULKHEAD - MATERIALS



Thanks to the bulkhead system, the regulators of the Fluidfit range allow a precise regulation of the flow acting outside the devices even if they are placed inside.

I regolatori della gamma Fluidfit, grazie al sistema passa parete, consentono un'accurata regolazione del flusso agendo dall'esterno degli apparecchi pur essendo posizionati al loro interno.

Please check page 4 of the present catalogue for technical data. Page 5 for working pressure and temperatures. Page 5 for instruction and page 8 for warnings and precautions.

Si rimanda a pag. 4 del presente catalogo per i dati tecnici. A pag. 5 per pressioni e temperature d'esercizio. Pag. 6 per istruzioni e pag. 8 per avvertenze e precauzioni.

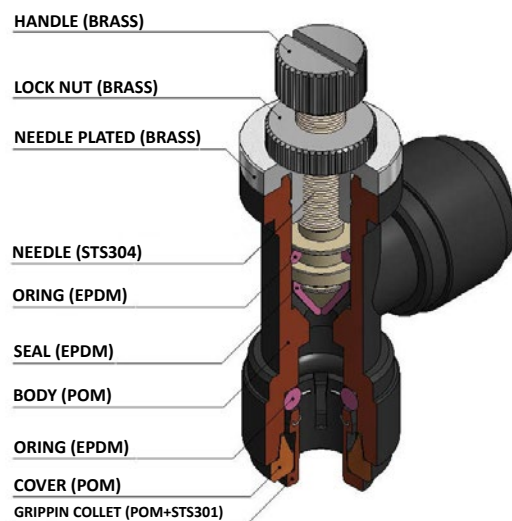
The maximum working temperature is 65 °C for continuous use and 90°C for short-term (5 minutes max) use.

La massima temperatura di utilizzo è di 65°C per un uso continuo e di 90°C per un uso massimo di 5 minuti.

The maximum working pressure is 10 bar at 65 °C for continuous use (10 bar at 90°C for short-term 5 minutes max use).

La massima pressione d'esercizio è di 10 bar a 65°C per un uso continuo (10 bar a 90°C per un uso massimo di 5 minuti).

FLOW REGULATORS - MATERIALS



The regulators of the Fluidfit range allow a precise regulation of the flow.

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La massima pressione d'esercizio è di 10 bar a 65°C per un uso continuo (10 bar a 90°C per un uso massimo di 5 minuti).

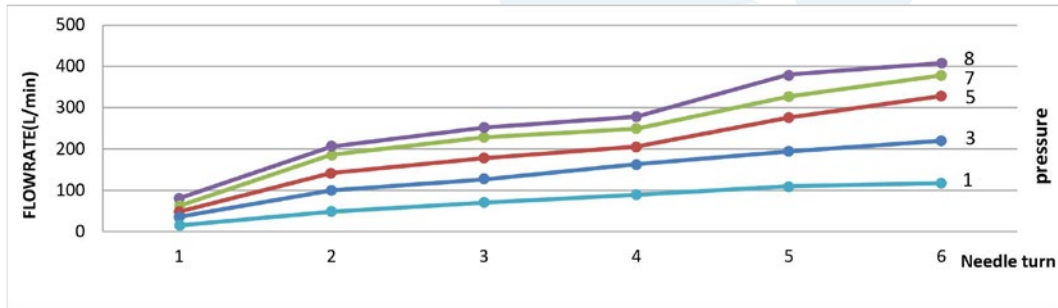
Flow Regulators



FLOW CHART

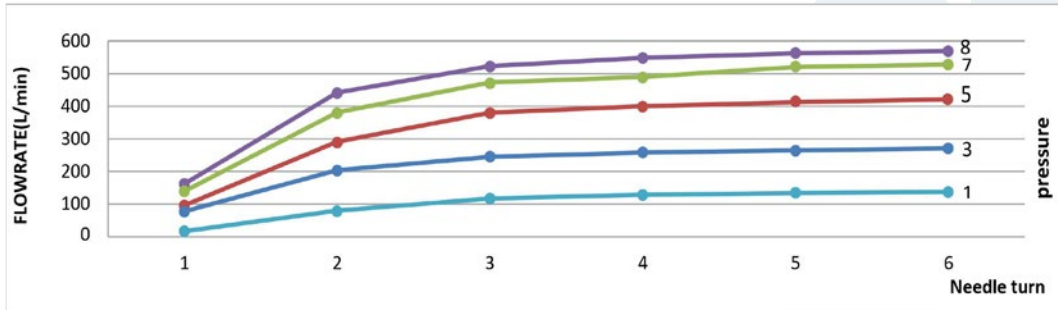
HSLB0606B, HSLB1/4-1/4G, HSLU0606B, HSLU1/4-1/4G

1. Flowrate



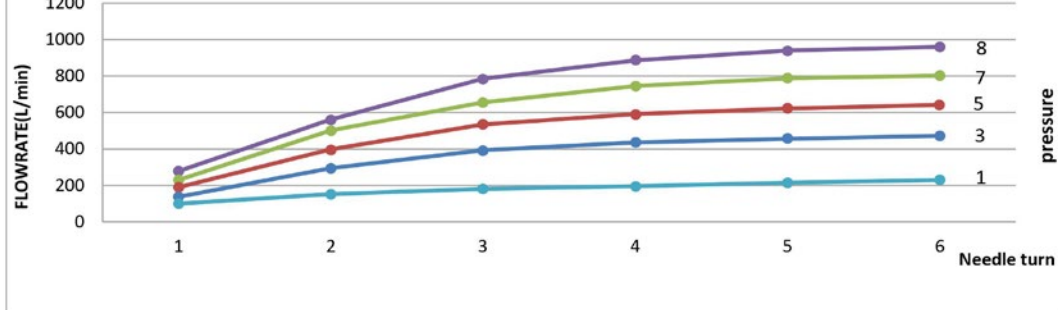
HSTU0606B, HSTU1/4-1/4G, HSTB0606B, HSTB1/4-1/4G

1. Flowrate



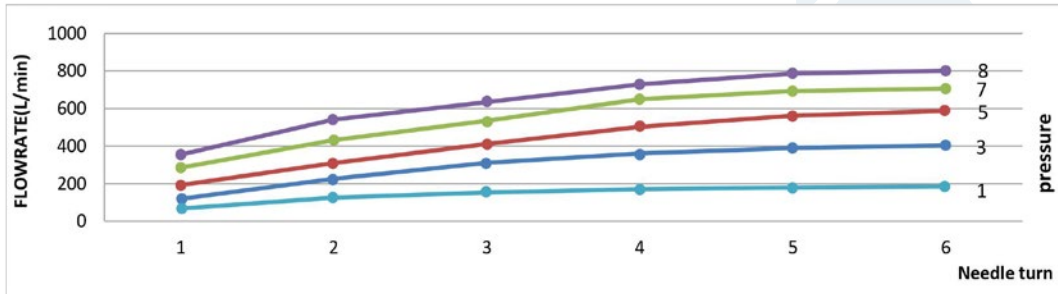
HSTU3/8-3/8G, HSTU1010B, HSTB1010B, HSTB3/8-3/8G

1. Flowrate



HSLU3/8-3/8G, HSLU1010B, HSLB3/8-3/8G, HSLB1010B

1. Flowrate

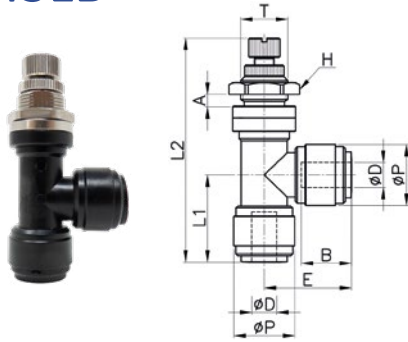


Flow Regulators Bulkhead



Elbow bulkhead metric flow regulator - Regolatore di flusso passaparete a gomito metrico

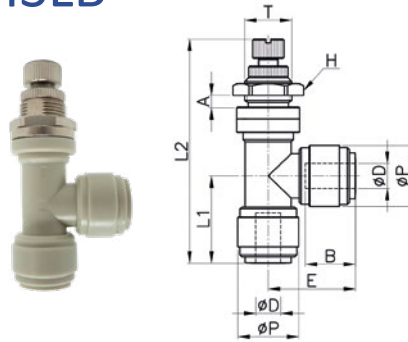
HSLB



CODE	ØD	ØP	T	L1	L2 MIN	L2 MAX	E	A	B	H	WEIGHT (G)	
HSLB0606B	6	15,5	M12x1,0	22,2	57,1	61,3	22,2	5,0	16,1	16	28,7	50
HSLB1010B	10	20,0	M15x1,0	25,0	67,7	73,4	26,0	6,0	19,7	19	54,0	25

Elbow bulkhead inch flow regulator - Regolatore di flusso passaparete a gomito in pollici

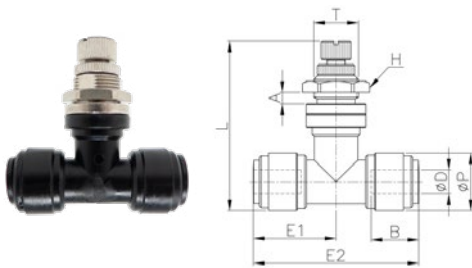
HSLB



CODE	ØD	ØP	T	L1	L2 MIN	L2 MAX	E	A	B	H	WEIGHT (G)	
HSLB1/4-1/4G	1/4	15,5	M12x1,0	22,2	57,1	61,3	22,2	5,0	16,9	16	28,7	50
HSLB3/8-3/8G	3/8	20,0	M15x1,0	25,0	67,8	73,5	26,0	6,0	19,8	19	54,0	25

Bulkhead metric flow regulator - Regolatore di flusso passaparete in linea metrico

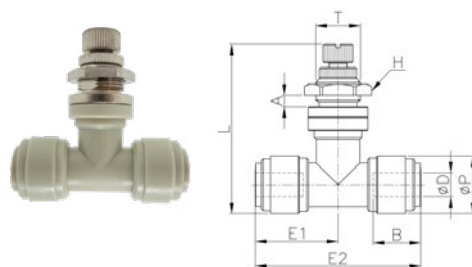
HSTB



CODE	ØD	ØP	T	E1	E2	L min	L max	A	B	H	WEIGHT (G)	
HSTB0606B	6	15,5	M12xP1	22,2	44,4	45,5	50,4	5,0	16,1	16	28,9	50
HSTB1010B	10	20,0	M15xP1	26,1	52,1	52,7	58,4	6,0	19,7	19	54,0	25

Bulkhead inch flow regulator - Regolatore di flusso passaparete in linea in pollici

HSTB



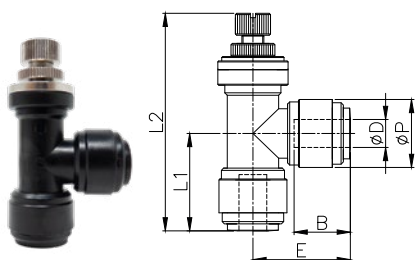
CODE	ØD	ØP	T	E1	E2	L min	L max	A	B	H	WEIGHT (G)	
HSTB1/4-1/4G	1/4	15,5	M12xP1	22,2	44,4	45,5	50,4	5,0	16,9	16	28,9	50
HSTB3/8-3/8G	3/8	20,0	M15xP1	26,1	52,1	52,7	58,4	6,0	19,8	19	54,0	25

Flow Regulators



Elbow metric flow regulator - Regolatore di flusso a gomito metrico

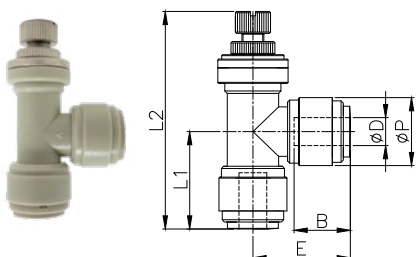
HSLU



CODE	ØD	ØP	L1	L2 MIN	L2 MAX	E	B	WEIGHT (G)	
HSLU0606B	6	15,5	22,2	49,6	53,6	22,2	16,1	20,3	50
HSLU1010B	10	20,0	25,0	59,0	64,7	26,0	19,7	39,0	25

Elbow inch flow regulator - Regolatore di flusso a gomito in pollici

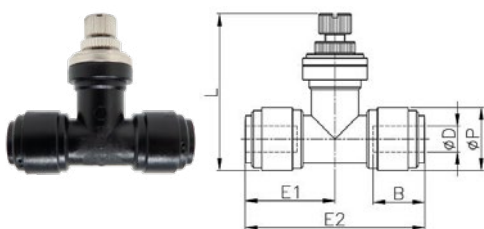
HSLU



CODE	ØD	ØP	L1	L2 MIN	L2 MAX	E	B	WEIGHT (G)	
HSLU1/4-1/4G	1/4	15,5	22,2	49,6	53,6	22,2	16,9	20,3	50
HSLU3/8-3/8G	3/8	20,0	25,0	59,1	64,8	26,1	19,8	39,0	25

Metric flow regulator - Regolatore di flusso in linea metrico

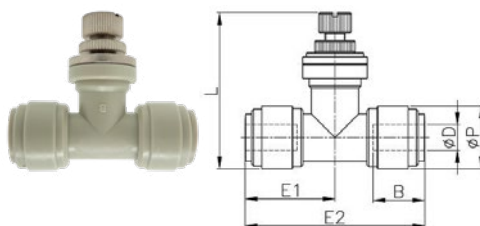
HSTU



CODE	ØD	ØP	E1	E2	L min	L max	B	WEIGHT (G)	
HSTU0606B	6	15,5	22,2	44,4	37,7	42,7	16,1	20,6	50
HSTU1010B	10	20,0	26,1	52,1	44,0	49,7	19,7	39,4	25

Inch flow regulator - Regolatore di flusso in linea in pollici

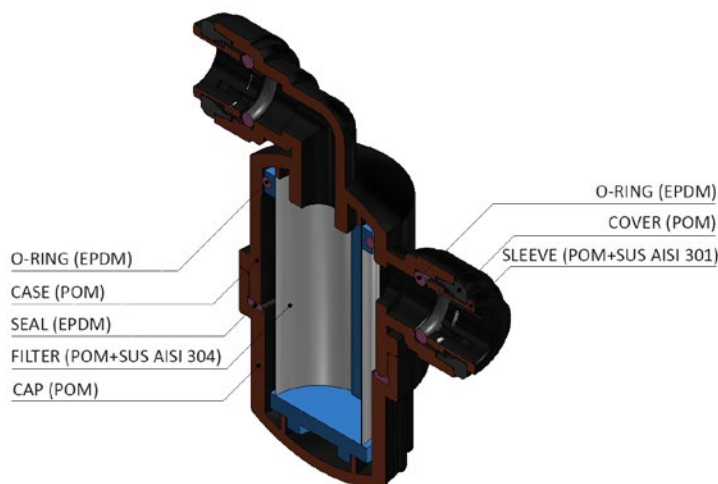
HSTU



CODE	ØD	ØP	E1	E2	L min	L max	B	WEIGHT (G)	
HSTU1/4-1/4G	1/4	15,5	22,2	44,4	37,7	42,7	16,9	20,6	50
HSTU3/8-3/8G	3/8	20,0	26,1	52,1	44,0	49,7	19,8	39,4	25

Technical Information

MATERIALS



The filter of the Fluidfit range allows to prevent debris with stainless steel filter strainer by 100 mesh in water supply system.

The screw typed cap of the Fluidfit filter has an easy installation. In particular, it allows an easy substitution of the filter for the maintenance.

Il filtro della gamma Fluidfit consente di evitare la formazione di detriti con filtro in acciaio inox da 100 mesh nel sistema di alimentazione dell'acqua.

Il tappo a vite del filtro Fluidfit è di facile installazione. In particolare, consente una facile sostituzione del filtro per la manutenzione.

Please check page 4 of the present catalogue for technical data. Page 5 for working pressure and temperatures. Page 5 for instruction and page 8 for warnings and precautions.

Si rimanda a pag. 4 del presente catalogo per i dati tecnici. A pag. 5 per pressioni e temperature d'esercizio. Pag. 6 per istruzioni e pag. 8 per avvertenze e precauzioni.

The maximum working temperature is 65 °C for continuous use and 90°C for short-term (5 minutes max) use.

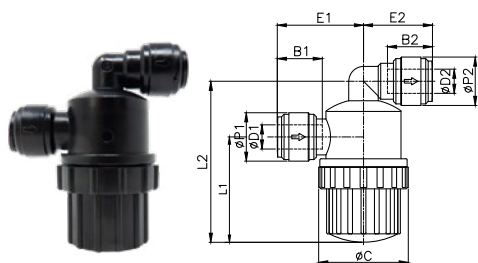
La massima temperatura di utilizzo è di 65°C per un uso continuo e di 90°C per un uso massimo di 5 minuti.

The maximum working pressure is 10 bar at 65 °C for continuous use (10 bar at 90°C for short-term 5 minutes max use).

La massima pressione d'esercizio è di 10 bar a 65°C per un uso continuo (10 bar a 90°C per un uso massimo di 5 minuti).

Metric sizes filter 100 mesh - Filtro metrico 100 mesh

HBMU

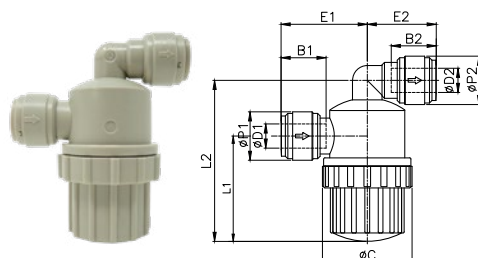


CODE	ØD1	ØD2	ØP1	ØP2	L1	L2	E1	E2	ØC	B1	B2	WEIGHT (G)	
HBMU0808B	8	8	20	20	43,5	66,5	35,3	28,2	37	17,5	17,5	40,9	20
HBMU1010B	10	10	20	20	43,5	66,5	35,6	28,5	37	20,1	20,1	37,6	20

HBMU: single plastic bag

Inch sizes filter 100 mesh - Filtro in pollici 100 mesh

HBMU



CODE	ØD1	ØD2	ØP1	ØP2	L1	L2	E1	E2	ØC	B1	B2	WEIGHT (G)	
HBMU1/4-1/4G	1/4	1/4	15,5	15,5	43,5	62,0	32,4	24,1	38,5	16,9	16,9	40,7	20
HBMU3/8-3/8G	3/8	3/8	20	20	43,5	66,5	35,7	28,6	37	20,2	20,2	40,7	20

HBMU: single plastic bag


Filters



Spare parts, stainless steel AISI 304 filter strainer by 100 mesh - Parte di ricambio, filtro 100 mesh in acciaio inox AISI 304

HFS



CODE	
HFS0808B	20
HFS1010B	20
HFS1/4-1/4G	20
HFS3/8-3/8G	20

HFS: single plastic bag

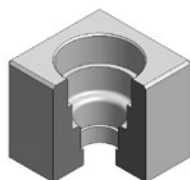
Technical Information

INSTRUCTIONS

Assembly instructions for half cartridge metric & inch in acetal resin (HCAS-P).

Istruzioni di montaggio per mezza cartuccia metrico & pollici in resina acetale (HCAS-P).

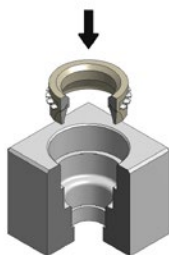
ASSEMBLY STEPS



1

Make clean cavity as per drawings.

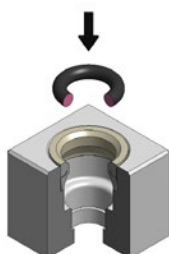
Creare una sede come da disegno.



2

Mount cartridge body on the cavity.

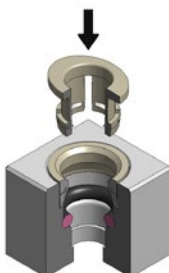
Inserire il corpo della cartuccia nella sede.



3

Insert clean O-ring.

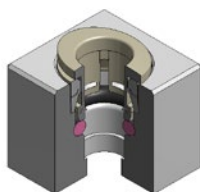
Inserire O-ring.



4

Assembly Collet.

Assemblare il colletto.



5

Test after installation (pressure and operation).

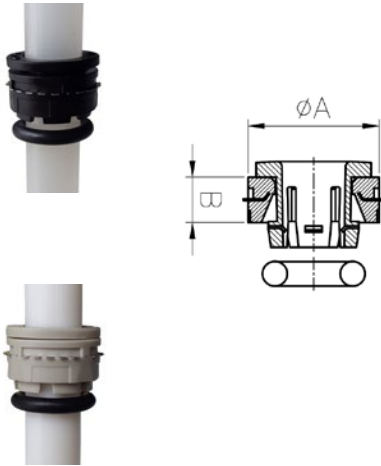
Effettuare un test di verifica dopo l'installazione.

Cartridges



Half cartridge metric & inch in acetal resin - Mezza cartuccia metrica & pollici in resina acetilica

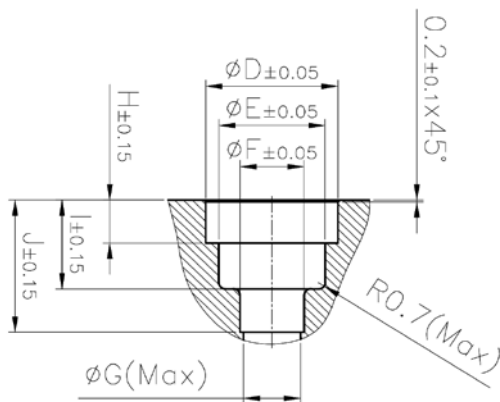
HCAS-P



CODE	ØTUBE	ØA	B	WEIGHT (G)	☐
HCAS-P 04	4	11,75	5,0	0,8	200
HCAS-P 06	6	13,30	4,6	0,9	200
HCAS-P 08	8	13,70	5,9	1,1	100
HCAS-P 10	10	15,90	6,9	1,4	100
HCAS-P 12	12	19,60	7,9	2,6	100

CODE	ØTUBE	ØA	B	WEIGHT (G)	☐
HCAS-P 5/32	5/32	11,75	5,0	0,8	200
HCAS-P 1/4	1/4	13,30	4,6	1,0	200
HCAS-P 5/16	5/16	13,70	5,9	1,1	100
HCAS-P 3/8	3/8	15,90	6,9	1,6	100
HCAS-P 1/2	1/2	19,60	7,9	2,6	100

BASE HOLE



TUBE	ØD	ØE	ØF	ØG	H	I	J
4	12,00	8,30	4,15	3,30	4,90	8,90	12,80
6	13,40	10,00	6,15	5,30	4,60	9,80	14,00
8	13,80	11,95	8,15	7,40	5,50	10,15	15,00
10	16,05	14,00	10,15	9,20	6,90	11,80	18,20
12	19,75	16,55	12,15	11,20	7,75	15,90	23,90

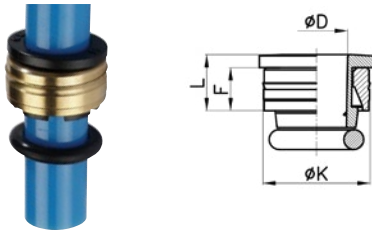
TUBE	ØD	ØE	ØF	ØG	H	I	J
5/32	12,00	8,30	4,15	3,30	4,90	8,90	12,80
1/4	13,40	10,80	6,50	5,80	4,60	9,80	14,10
5/16	13,80	11,95	8,15	7,40	5,50	10,15	15,00
3/8	16,05	13,90	9,65	8,90	6,85	11,80	18,20
1/2	19,75	17,40	12,85	12,20	7,70	14,90	22,90

Cartridges



Half cartridge metric & inch in brass - Mezza cartuccia metrica & pollici in ottone

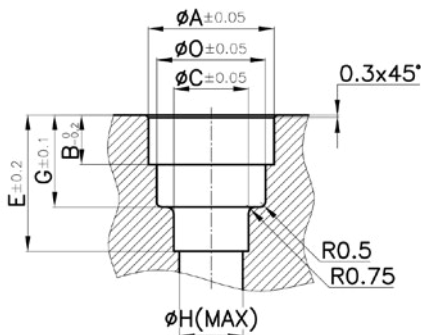
HCAS-H



CODE	ϕD	ϕK	L	F	WEIGHT (G)	
HCAS-H 04	4	12,70	6,8	5,3	4,2	200
HCAS-H 06	6	13,60	6,6	5,0	3,9	200
HCAS-H 08	8	14,05	7,4	5,7	3,5	200
HCAS-H 10	10	16,30	8,8	7,0	5,0	100
HCAS-H 12	12	19,35	10,8	8,8	9,0	100

CODE	ϕD	ϕK	L	F	WEIGHT (G)	
HCAS-H 5/32	5/32	12,7	6,8	5,3	4,2	200
HCAS-H 1/4	1/4	13,6	6,6	5,0	3,7	200
HCAS-H 5/16	5/16	14,05	7,4	5,7	3,5	200
HCAS-H 3/8	3/8	16,3	8,8	7,0	5,5	100
HCAS-H 1/2	1/2	20,0	10,1	7,9	8,7	100

BASE HOLE

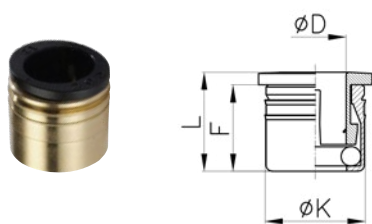


TUBE	ϕA	ϕO	ϕC	$\phi H \text{ max}$	B	G	E
4	12,5	8,3	4,2	3,3	4,90	8,90	12,8
6	13,4	10,0	6,2	5	4,60	9,80	14,0
8	13,82	11,95	8,2	7	5,46	10,15	15,0
10	16,05	14,0	10,2	9	6,86	11,80	18,2
12	19,1	16,55	12,2	11	8,65	15,50	23,5

TUBE	ϕA	ϕO	ϕC	$\phi H \text{ max}$	B	G	E
5/32	12,5	8,3	4,2	3,3	4,9	8,9	12,8
1/4	13,4	10,8	6,5	5,5	4,6	9,8	14,0
5/16	13,82	11,95	8,2	7,0	5,46	10,15	15,0
3/8	16,05	13,9	9,65	8,5	6,86	11,8	18,2
1/2	19,75	17,4	12,85	12,0	7,70	14,9	22,9

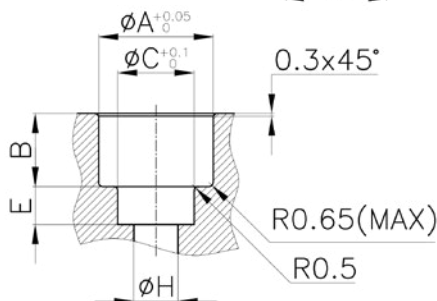
Full cartridge metric in brass - Cartuccia intera metrica in ottone

HCAS-F



CODE	ϕD	ϕK	L	F	WEIGHT (G)	
HCAS-F 04	4	10,20	12,0	10,5	3,8	200
HCAS-F 06	6	11,25	12,6	11,0	3,2	200
HCAS-F 08	8	13,25	13,2	11,5	3,9	200
HCAS-F 10	10	15,25	14,3	12,5	4,7	100
HCAS-F 12	12	17,80	16,9	14,8	7,2	100

BASE HOLE



TUBE	ϕA	ϕC	ϕH	B	E
4	10,0	4,15	3,2	10,3	3,2
6	11,0	6,15	5,2	10,8	3,7
8	13,0	8,15	7,2	11,3	4,8
10	15,0	10,15	9,2	12,2	5,4
12	17,5	12,15	11,2	14,1	7,3

Cartridges



EPDM metric & inch o-ring - O-Ring metrico & pollici EPDM

HOR

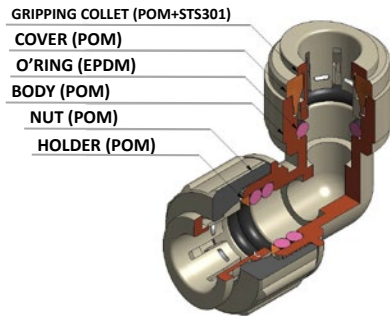


CODE	ØD	WEIGHT (G)	
HOR04	4	0,1	1000
HOR05	5	0,11	1000
HOR06	6	0,15	1000
HOR08	8	0,21	1000
HOR10	10	0,24	1000
HOR12	12	0,32	1000
HOR15	15	0,58	1000
HOR22	22	0,98	1000

CODE	ØD	WEIGHT (G)	
HOR5/32	5/32	0,1	1000
HOR3/16	3/16	0,13	1000
HOR1/4	1/4	0,18	1000
HOR5/16	5/16	0,21	1000
HOR3/8	3/8	0,24	1000
HOR1/2	1/2	0,37	1000

Technical Informations

MATERIALS



Steel Fit fittings are studied in order to satisfy the requirements related to the connection of stainless steel tubings.

I raccordi Steel Fit della gamma Fluidfit nascono per soddisfare le esigenze di connessione relative a tubi in acciaio inox.

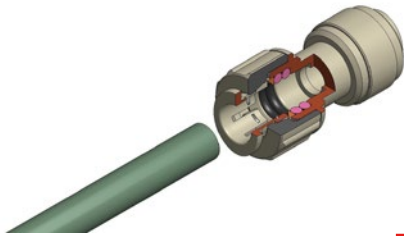
INSTRUCTIONS

We recommend to read and follow all the instructions, precautions and warnings contained in this catalogue before using the products in pressurized systems. Failure to follow all instructions, precautions and warnings may result in bodily harm or property damages. CDC Fluidtech Europe disclaims any responsibility in case of damages for wrong use of the products.

Si raccomanda di leggere e seguire attentamente le presenti istruzioni e di rispettare le precauzioni e gli avvertimenti contenuti nel presente documento prima dell'utilizzo dei prodotti in sistemi pressurizzati. L'inosservanza delle istruzioni, delle precauzioni e degli avvertimenti che seguono potrebbe causare danni a persone e/o cose. CDC Fluidtech Europe declina ogni tipo di responsabilità per danni derivanti dall'improprio uso dei prodotti.

HOW TO CONNECT

For the part of the fitting to be connected to standard tubing (plastic or soft metal types), please refer to the instructions at page 10 of the present catalogue. Make sure that the tube size and the push-in system size of the fittings are the same. Cut square (90° angle) the part of the tube that has to be inserted into the fittings using the proper tube cutter. Do not use hacksaw. Make sure that the tube used is clean and does not present any scratch, crack, cut or deformity and always deburr the tube before the insertion in order not to damage the o-rings. Before inserting the tube, please remove any possible obstruction inside the fitting.

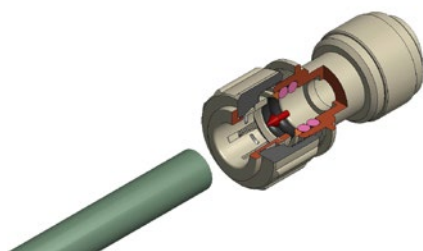


1

Per le istruzioni relative alla parte del raccordo per tubi standard (plastici o in metallo tenero) fare riferimento alle istruzioni a pagina 10 del presente catalogo. Assicurarsi che il tubo ed il sistema ad innesto rapido del raccordo siano della stessa misura. Tagliare ad angolo retto la parte di tubo che dovrà essere inserita nel raccordo mediante idoneo tagliatubi. Non utilizzare segchetti per metalli. Assicurarsi che il tubo utilizzato sia perfettamente pulito e che non presenti tagli, rotture, crepe o deformità e sbavare l'estremità al fine di evitare di danneggiare le o-ring. Prima dell'inserimento del tubo rimuovere ogni possibile ostruzione dall'interno del raccordo.

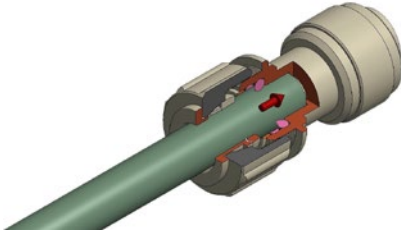
Unscrew anticlockwise the nut by hands making two turns in order to fully release the system.

Svitare manualmente in senso antiorario il dado per due giri completi al fine di aprire completamente il sistema.



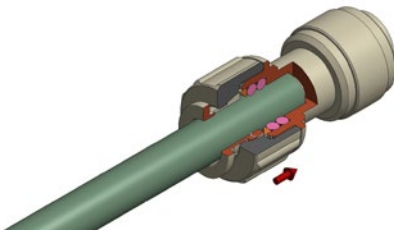
2

Steelfit Fittings



Make sure that the tube is correctly and fully inserted.
Inserting the tube into the fitting requires a moderate strain. The tube and the fitting should not be scratched or damaged during the insertion, otherwise there may be leaks or further wrong functions.
Please, connect the tube by hands, without using any kind of tool, whether dedicated or not.

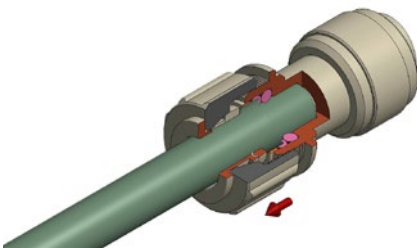
Assicurarsi che il tubo sia correttamente e completamente inserito.
L'inserimento del tubo richiede uno sforzo moderato. Il tubo ed il raccordo non devono essere graffiati o danneggiati durante l'inserimento, in caso contrario potrebbero esserci perdite o malfunzionamenti.
Eseguire l'inserimento manualmente, senza l'utilizzo di strumenti, siano essi dedicati o improvvisati.



Keep the tube into the fitting completely inserted and screw by hands the nut clockwise up to the fully screwed position. This will grant a perfect seal of the system and the tube will be fully gripped.

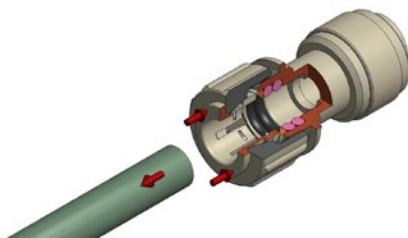
Mantenere il tubo in posizione e avvitare il dado manualmente in senso orario sino a completo avvitamento. Questa operazione garantisce una perfetta tenuta ed il completo aggraffaggio del tubo.

HOW TO DISCONNECT



Unscrew anticlockwise the nut by hands making two turns in order to fully release the system.

Svitare manualmente in senso antiorario il dado per due giri completi al fine di aprire completamente il sistema.



Push the collet in the direction of the body of the fitting and pull the tube keeping the collet pushed in order to disconnect the tube from the fitting.

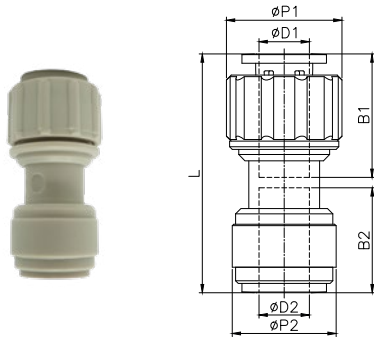
Premere il colletto di sgancio in direzione del corpo del raccordo e mantenerlo premuto mentre si sfila il tubo dal raccordo.

Steelfit Fittings



Union connector - Intermedio diritto

HUCP

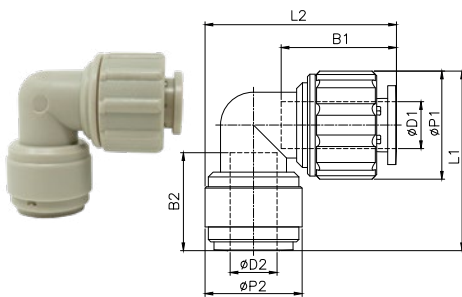


CODE	ØD1 (STEELFIT)	ØD2	ØP1	ØP2	B1	B2	L	WEIGHT (G)	
HUCP5/16-5/16G	5/16	5/16	19,3	20,0	21,1	17,5	42,9	9,8	50
HUCP3/8-3/8G	3/8	3/8	22,3	20,0	23,8	20,2	46,0	11,4	50
HUCP1/2-1/2G	1/2	1/2	27,5	23,6	29,0	25,1	56,1	18,7	25

CODE	ØD1 (STEELFIT)	ØD2	ØP1	ØP2	B1	B2	L	WEIGHT (G)	
HUCP1/4-5/16G	1/4	5/16	19,3	20,0	19,7	17,5	41,4	9,9	50
HUCP1/4-3/8G	1/4	3/8	19,3	20,0	19,7	20,2	41,8	9,8	50
HUCP5/16-3/8G	5/16	3/8	19,3	20,0	21,1	20,0	43,3	9,5	50
HUCP5/16-1/2G	5/16	1/2	19,3	23,6	21,1	25,1	48,2	12,0	50
HUCP3/8-5/16G	3/8	5/16	22,3	20,0	23,8	17,5	45,6	11,6	50

Union elbow - Intermedio a gomito

HULP

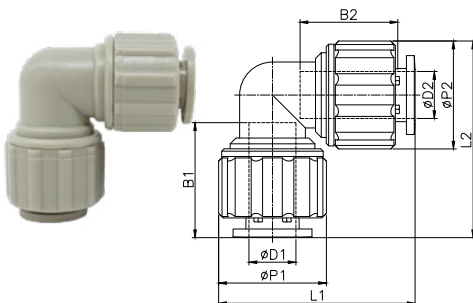


CODE	ØD1 (STEELFIT)	ØD2	ØP1	ØP2	B1	B2	L1	L2	WEIGHT (G)	
HULP5/16-5/16G	5/16	5/16	19,3	20,0	21,1	17,5	35,1	35,8	11,5	50
HULP3/8-3/8G	3/8	3/8	22,3	20,0	23,8	20,2	37,0	39,5	12,7	50
HULP1/2-1/2G	1/2	1/2	27,5	23,6	29,0	25,1	46,4	48,3	21,2	25

CODE	ØD1 (STEELFIT)	ØD2	ØP1	ØP2	B1	B2	L1	L2	WEIGHT (G)	
HULP1/4-5/16G	1/4	5/16	19,3	20,0	19,7	17,5	35,1	35,3	11,2	50
HULP1/4-3/8G	1/4	3/8	19,3	20,0	19,7	20,2	35,5	35,3	11,0	50
HULP5/16-3/8G	5/16	3/8	19,3	20,0	21,1	20,2	35,5	35,8	10,6	50
HULP3/8-5/16G	3/8	5/16	22,3	20,0	23,8	17,5	36,6	39,5	12,8	50

Union elbow with double steel fit connections - Intermedio a gomito con doppia connessione steel fit

HULS

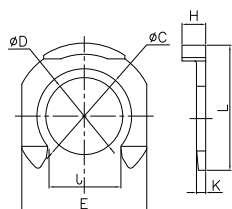


CODE	ØD1 (STEELFIT)	ØD2 (STEELFIT)	ØP1	ØP2	B1	B2	L1	L2	WEIGHT (G)	
HULS5/16-5/16G	5/16	5/16	19,3	19,3	21,0	21,0	35,4	35,4	10,2	50

Accessories

Locking clip - Clip di bloccaggio

HCP



CODE	ØD	ØC	E	L	H	J	K	WEIGHT (G)	☐
HCP04-5/32	04 - 5/32	6,2	10,2	11,0	2,8	4,3	1,1	0,09	1000
HCP05-3/16	05 - 3/16	6,2	10,2	11,0	2,8	4,3	1,1	0,09	1000
HCP06-1/4	06 - 1/4	8,0	11,6	11,6	3,1	6,4	1,3	0,12	1000
HCP08-5/16	08 - 5/16	9,6	13,5	13,9	3,3	7,3	1,4	0,16	1000
HCP10-3/8	10 - 3/8	11,8	16,0	16,4	3,4	9,2	1,4	0,23	1000
HCP12-1/2	12 - 1/2	14,4	19,0	19,0	3,6	11,1	1,4	0,30	1000
HCP15	15	17,0	22,5	22,6	3,6	13,1	1,4	0,45	500
HCP22	22	24,0	30,0	29,3	3,8	19,1	1,9	0,84	300

HCP: single plastic bag 100pcs.

ØD	Grey	Black	Red	Blue
04-5/32	HCP04-5/32GR	HCP04-5/32BK	HCP04-5/32RD	HCP04-5/32BL
05-3/16	HCP05-3/16GR	HCP05-3/16BK	HCP05-3/16RD	HCP05-3/16BL
06-1/4	HCP06-1/4GR	HCP06-1/4BK	HCP06-1/4RD	HCP06-1/4BL
08-5/16	HCP08-5/16GR	HCP08-5/16BK	HCP08-5/16RD	HCP08-5/16BL
10-3/8	HCP10-3/8GR	HCP10-3/8BK	HCP10-3/8RD	HCP10-3/8BL
12-1/2	HCP12-1/2GR	HCP12-1/2BK	HCP12-1/2RD	HCP12-1/2BL
15	HCP15GR	HCP15BK	HCP15RD	HCP15BL
22	HCP22GR	HCP22BK	HCP22RD	HCP22BL

Spanner - Set chiavi

HRT



CODE	ØD	WEIGHT (G)	☐
HRT	* 05 - 3/16 06 - 1/4 08 - 5/16 10 - 3/8 12 - 1/2	20	1

* 05 - 3/16 works with 04 - 5/32

HRT: single plastic bag

HRT code includes the complete set of keys
Il codice HRT comprende il set completo di chiavi

Accessories

Tube cutter with tape - Tagliatubi con metro

ETC



CODE	SIZES	PLUS	WEIGHT (G)	
ETC-20	Suitable for Fluidfit pipe	Measuring tape (1m)	47,5	1

Flow bend clip - Fascetta curva per tubi

HBC



CODE	Ø TUBE	Ø HOLES	WEIGHT (G)	
HBC08-5/16B	8 - 5/16	3,4	4,1	25
HBC10-3/8B	10 - 3/8	3,4	11,6	25

HBC: single plastic bag

Tubes



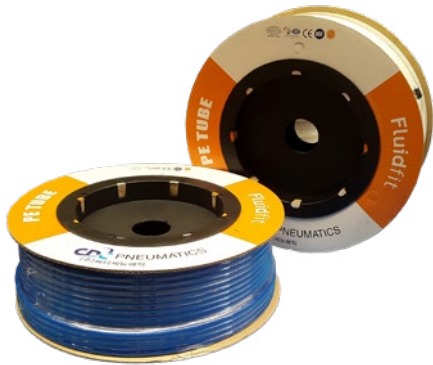
Technical Information

PE tubing is made from FDA compliant.
 Temperature: -29°C (-20°F) to +66°C (150°F)
 Suitable for water purification, water conditioners, ice makers, misting systems and food contact applications.
 Suitable for a wide range of temperatures and pressures.
 Broad chemical compatibility.

Tubo PE in accordo alla FDA.
 Temperatura: -29°C (-20°F) to +66°C (150°F)
 Idoneo per depuratori, condizionatori ad acqua, macchine del ghiaccio, nebulizzatori e applicazioni a contatto con alimenti.
 Idoneità per un ampio range di temperatura e pressione.
 Estesa compatibilità chimica.

Metric tube - tubo metrico

PE



TUBE	Ø O.D.	Ø I.D.	Wall Thickness (mm)	Minimum bending radius at 23°C (mm)	Max Working Pressure (bar)	Working Pressure 20°C (bar)	Working Pressure 65°C (bar)	Burst pressure at 23°C (bar)	Minimum Tensile test (kgf/cm)	Length (mt.)
PE 0425..FF	4 ±0,08	2,5	0,75 ±0,08	25	16	15	8	30	5	200
PE 0604..FF	6 ±0,08	4	1 ±0,08	25	16	15	8	30	10	100
PE 0806..FF	8 ±0,08	6	1 ±0,08	25	12	10	6	20	15	100
PE 1007..FF	10 ±0,08	7	1,5 ±0,08	32	12	10	6	20	20	100
PE 1209..FF	12 ±0,10	9	1,5 ±0,08	63	12	10	6	20	20	100

ØD	Natural	Black	White	Red	Blue	Green	Yellow
	4x2,5	PE0425NU-FF	PE0425NE-FF	PE0425BO-FF	PE0425RO-FF	PE0425BL-FF	PE0425VD-FF
6x4	PE0604NU-FF	PE0604NE-FF	PE0604BO-FF	PE0604RO-FF	PE0604BL-FF	PE0604VD-FF	PE0604GL-FF
8x6	PE0806NU-FF	PE0806NE-FF	PE0806BO-FF	PE0806RO-FF	PE0806BL-FF	PE0806VD-FF	PE0806GL-FF
10x7	PE1007NU-FF	PE1007NE-FF	PE1007BO-FF	PE1007RO-FF	PE1007BL-FF	PE1007VD-FF	PE1007GL-FF
12x9	PE1209NU-FF	PE1209NE-FF	PE1209BO-FF	PE1209RO-FF	PE1209BL-FF	PE1209VD-FF	PE1209GL-FF

Tubes



Inch tube - tubo in pollici

PE



TUBE	Ø O.D.	Ø I.D.	Wall Thickness (mm)	Minimum bending radius at 23°C (mm)	Max Working Pressure (PSI)	Working Pressure 20°C (PSI)	Working Pressure 65°C (PSI)	Burst pressure at 23°C (PSI)	Min. Tensile test (kgf/cm)	Length (mt.)
PE 3/16..FF	3/16 ±0,08	0,125" (3,18)	0,79 ±0,08	1,00" (25,4)	230	217	116	435	5	200
PE 1/4..FF	1/4 ±0,08	0,170" (4,32)	1,02 ±0,08	1,00" (25,4)	230	217	116	435	10	100
PE 5/16..FF	5/16 ±0,08	0,216" (5,49)	1,22 ±0,08	1,13" (28,7)	170	217	116	435	15	100
PE 3/8..FF	3/8 ±0,08	1/4" (6,35)	1,58 ±0,08	1,25" (31,8)	170	217	116	290	20	100
PE 1/2..FF	1/2 ±0,1	3/8" (9,53)	1,58 ±0,08	2,50" (63,5)	170	145	87	290	20	100

For size Ø5/32 tube, please use the Ø04 mm on page 63 - Per il tubo Ø5/32 si consiglia di utilizzare il tubo Ø4 a pag. 63

ØD	Natural	Black	White	Red	Blue	Green	Yellow
	3/16	PE3/16NU-FF	PE3/16NE-FF	PE3/16BO-FF	PE3/16RO-FF	PE3/16BL-FF	PE3/16VD-FF
1/4	PE1/4NU-FF	PE1/4NE-FF	PE1/4BO-FF	PE1/4RO-FF	PE1/4BL-FF	PE1/4VD-FF	PE1/4GL-FF
5/16	PE5/16NU-FF	PE5/16NE-FF	PE5/16BO-FF	PE5/16RO-FF	PE5/16BL-FF	PE5/16VD-FF	PE5/16GL-FF
3/8	PE3/8NU-FF	PE3/8NE-FF	PE3/8BO-FF	PE3/8RO-FF	PE3/8BL-FF	PE3/8VD-FF	PE3/8GL-FF
1/2	PE1/2NU-FF	PE1/2NE-FF	PE1/2BO-FF	PE1/2RO-FF	PE1/2BL-FF	PE1/2VD-FF	PE1/2GL-FF



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