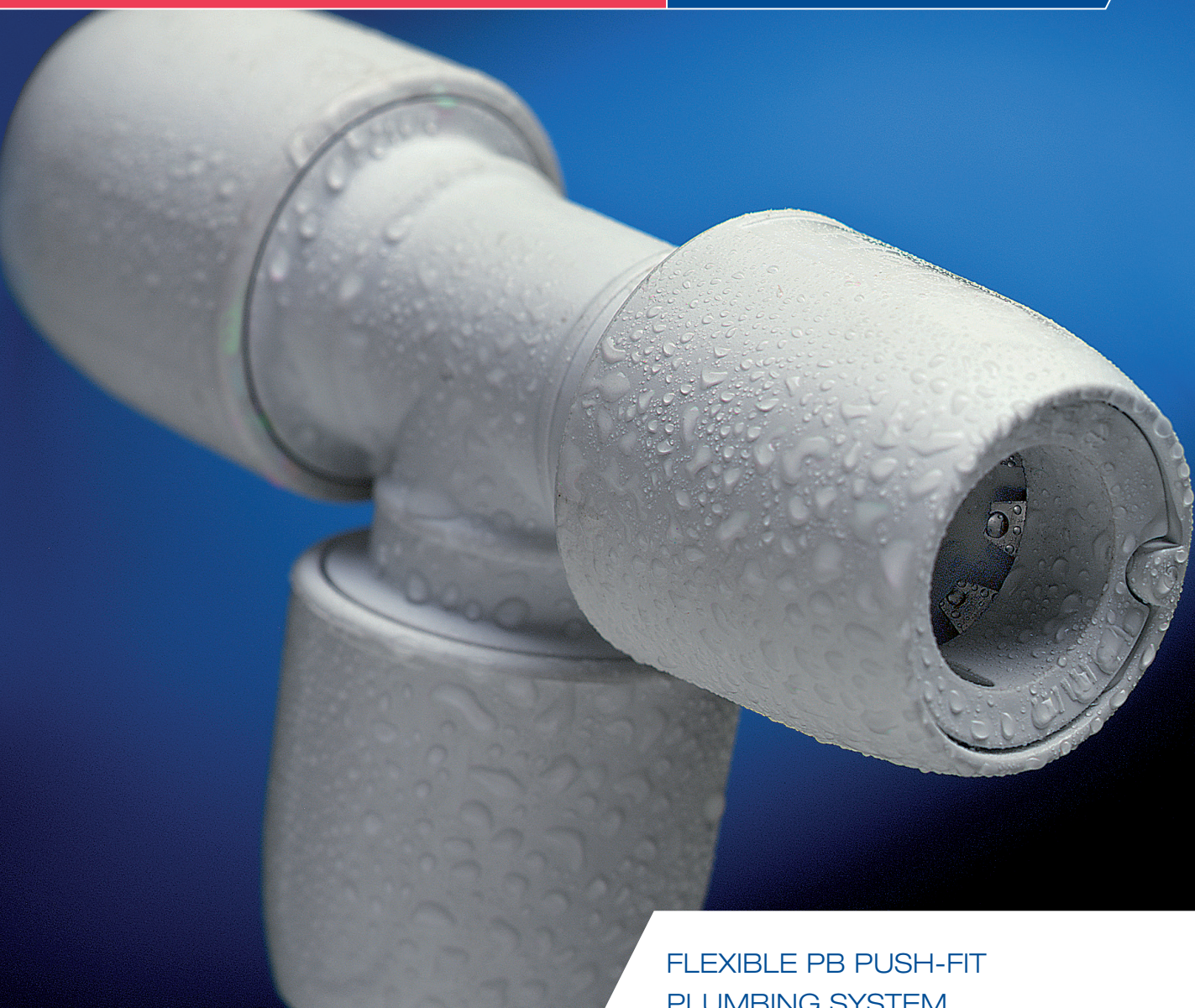


**Wavin Hep2O
Push-fit plumbing system**

Product List



FLEXIBLE PB PUSH-FIT
PLUMBING SYSTEM

Content

1	Hep2O PB pipe	page 3
2	Hep2O fittings	page 4
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The Hep2O system is available in the sizes 15, 22 and 28 mm.
The dimensioning is easy to recognize by the colour packaging:

- 15 mm: blue
- 22 mm: purple
- 28 mm: orange

1. Hep2O PB pipe

	Description	Dia mm	Packaging (bag)	Article code
	Straight Coil Pipe - Standard Straight Coiled Lengths in SmartPack dispensers.	15 mm x 25 m coil		HXP25/15W
		15 mm x 50 m coil		HXP50/15W
		15 mm x 100 m coil		HXP100/15W
		15 mm x 200 m coil		HXP200/15W
		22 mm x 25 m coil		HXP25/22W
		22 mm x 50 m coil		HXP50/22W
		28 mm x 25 m coil		HXP25/28W
		28 mm x 50 m coil		HXP50/28W
	Straight Coil Pipe - Barrier Straight Coiled Lengths in SmartPack dispensers. 5 Layer pipe with internal oxygen barrier layer.	15 mm x 25 m coil		HXX25/15W
		15 mm x 50 m coil		HXX50/15W
		15 mm x 100 m coil		HXX100/15W
		22 mm x 25 m coil		HXX25/22W
		22 mm x 50 m coil		HXX50/22W
		28 mm x 25 m coil		HXX25/28W
		28 mm x 50 m coil		HXX50/28W
	Straight Standard Pipe - Cut Lengths	15 mm x 3 m length	40	HXP03/15W
		15 mm x 6 m length	40	HXP06/15W
		22 mm x 3 m length	20	HXP03/22W
		22 mm x 6 m length	20	HXP06/22W
		28 mm x 6 m length	12	HXP06/28W










2. Hep2O fittings

	Description	Dia mm	Article code
	Straight Connectors	15 mm	HD1/15W
		22 mm	HD1/22W
		28 mm	HD1/28W
	Socket Reducer	22 mm x 15 mm	HD2/22W
		28 mm x 22 mm	HD2/28W
	Elbow 90°	15 mm	HD5/15W
		22 mm	HD5/22W
		28 mm	HD5/28W
	Elbow 90° Single Socket	15 mm	HD4/15W
		22 mm	HD4/22W
	Obtuse bend 135° Single Socket	15 mm	HD8/15W
		22 mm	HD8/22W
	Equal Tee	15 mm	HD10/15W
		22 mm	HD10/22W
		28 mm	HD10/28W
	End Reduced Tee (dimensions: end x end x branch)	22 x 15 x 22 mm	HD12/22W
		28 x 22 x 28 mm	HD12/28W
	Double End Reduced Tee (dimensions: end x end x branch)	15 x 15 x 22 mm	HD 18/22W
		22 x 22 x 28 mm	HD 18/28W
	Branch Reduced Tee (dimensions: end x end x branch)	22 x 22 x 15 mm	HD13/22W
		28 x 28 x 22 mm	HD13/28W
		28 x 28 x 15 mm	HD13A/28W

Wavin Hep2O - Product List

	Description	Dia mm	Article code
	Branch Reduced Spigot Tee (dimensions: end x end x branch)	22 x 22 x 15 mm	HD15/22W
	Branch & One End Reduced Tee (dimensions: end x end x branch)	22 x 15 x 15 mm 28 x 22 x 22 mm	HD14/22W HD14/28W
	Demountable Stop End	15 mm 22 mm 28 mm	HD62/15W HD62/22W HD62/28W
	Tank Connector For cold water only	1/2" BSP x 15 mm 3/4" BSP x 22 mm 1" BSP x 28 mm (Brass)	HX20/15W HX20/22W HX20/28W
	Straight Tap Connector	1/2" BSP x 15 mm 3/4" BSP x 15 mm 3/4" BSP x 22 mm	HD25A/15W HD25B/15W HD25B/22W
	Tap Connector Spanners For use with HD25 and HD27 tap connectors	BSP 1/2" BSP 3/4"	HX54W HX54AW
	Hand-Titan Tap Connectors With rubber washer	BSP 1/2" x 15 mm BSP 3/4" x 15 mm BSP 3/4" x 22 mm	HD26A/15W HD26B/15W HD26B/22W
	Flexible Tap Connectors Hep2O x BSP Nut	150 mm braided, 15 mm x 1/2" BSP 300 mm braided, 15 mm x 1/2" BSP 300 mm braided, 15 mm x 3/4" BSP 300 mm braided, 22 mm x 3/4" (Full Bore) BSP 300 mm braided, 22 mm x 3/4" BSP 500 mm braided, 15 mm x 1/2" BSP 500 mm braided, 15 mm x 3/4" BSP	HD425A/15W HD125A/15W HD125B/15W HD125C/22W HD125B/22W HD225A/15W HD225B/15W

BSP = British Standard Pipe Thread

	Description	Dia mm	Article code
		500 mm braided, 22 mm x 3/4" (Full Bore) BSP	HD225C/22W
		500 mm braided, 22 mm x 3/4" BSP	HD225B/22W
		1000 mm braided, 15 mm x 1/2" BSP	HD325A/15W
		1000 mm braided, 22 mm x 3/4" BSP	HD325B/22W
		300 mm white, 15 mm x 1/2" BSP	HDW125A/15W
		300 mm white, 15 mm x 3/4" BSP	HDW125B/15W
		300 mm white, 22 mm x 3/4" BSP	HDW125B/22W
		500 mm white, 15 mm x 1/2" BSP	HDW225A/15W
		500 mm white, 15 mm x 3/4" BSP	HDW225B/15W
		500 mm white, 22 mm x 3/4" BSP	HDW225B/22W
	Flexible Tap Connectors Hep2O x Hep2O	300 mm braided, 15 mm x 15 mm	HD125H/15W
		300 mm braided, 22 mm x 22 mm	HD125H/22W
		500 mm braided, 15 mm x 15 mm	HD225H/15W
		500 mm braided, 22 mm x 22 mm	HD225H/22W
		300 mm white, 15 mm x 15 mm	HDW125H/15W
		300 mm white, 22 mm x 22 mm	HDW125H/22W
	Flexible Tap Connectors Hep2O x Elbow BSP Nut	300 mm braided, 15 mm x 1/2" BSP	HD125D/15W
		300 mm white, 15 mm x 1/2" BSP	HDW125D/15W
	Flexible Tap Connectors Hep2O x Brass Service Valve x BSP Nut	300 mm braided, 15 mm x 1/2" BSP	HD125E/15W
		300 mm braided, 22 mm x 3/4" BSP	HD125E/22W
		500 mm braided, 15 mm x 1/2" BSP	HD225E/15W
		500 mm braided, 15 mm x 3/4" BSP	HD225I/15W
		500 mm braided, 22 mm x 3/4" BSP	HD225E/22W
		300 mm white, 15 mm x 1/2" BSP	HDW125E/15W
		300 mm white, 22 mm x 3/4" BSP	HDW125E/22W
	Flexible Tap Connectors Hep2O x Brass Service Valve (Handle) x BSP Nut	300 mm braided, 15 mm x 1/2" BSP	HD125EH/15W
		300 mm braided, 22 mm x 3/4" BSP	HD125EH/22W
	Flexible Tap Connectors Hep2O x Monobloc Mixers	300 mm braided, 15 mm x M10*	HD125F/15W
		300 mm braided, 15 mm x M12*	HD125G/15W

*sold and priced as a pair

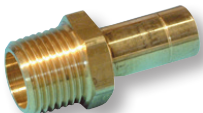
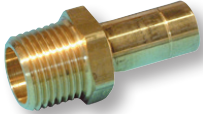






BSP = British Standard Pipe Thread

Wavin Hep2O - Product List

	Description	Dia mm	Article code
	Bent Tap Connector	1/2" BSP x 15 mm	HD27/15W
	Adaptor - Female BSP/Hep₂O Socket DZR Brass	1/2" x 15 mm 3/4" x 22 mm 1" x 28 mm	HX28/15W HX28/22W HX28/28W
	Adaptor - Female BSP/Hep₂O Socket Non DZR Brass	1/2" BSP x 15 mm 3/4" BSP x 22 mm 1" BSP x 28 mm	HE28/15W HE28/22W HE28/28W
	Adaptor - Male BSP/Hep₂O Socket DZR Brass	1/2" BSP x 15 mm 3/4" BSP x 22 mm 1" BSP x 28 mm	HX29/15W HX29/22W HX29/28W
	Adaptor - Male BSP/Hep₂O Socket Non DZR Brass	1/2" BSP x 15 mm 3/4" BSP x 22 mm 1" BSP x 28 mm	HE29/15W HE29/22W HE29/28W
	Adaptor - Female BSP/Hep₂O Spigot DZR Brass	1/2" BSP x 15 mm 3/4" BSP x 22 mm 1" BSP x 28 mm	HX30/15W HX30/22W HX30/28W
	Adaptor - Female BSP/Hep₂O Spigot Non DZR Brass	1/2" BSP x 15 mm 3/4" BSP x 22 mm 1" BSP x 28 mm	HE30/15W HE30/22W HE30/28W

DZR = Dezincification Resistant Brass








Selection of Brassware Fittings range between DZR and non-DZR families depends on local regulations applying in each market.

	Description	Dia mm	Article code
	Adaptor - Male BSP/Hep2O Spigot DZR Brass	1/2" BSP x 15 mm	HX31/15W
		3/4" BSP x 22 mm	HX31/22W
		1" BSP x 28 mm	HX31/28W
	Adaptor - Male BSP/Hep2O Spigot Non DZR Brass	1/2" BSP x 15 mm	HE31/15W
		3/4" BSP x 22 mm	HE31/22W
		1" BSP x 28 mm	HE31/28W
	Draincock Brass 15 mm spigot DZR Brass	15 mm	HX32/15W
	Wall Plate Elbow	1/2" BSP x 15 mm	HX6/15W
		3/4" BSP x 22 mm	HX6/22W
	Wall Screw Elbow Non DZR Brass	1/2" BSP x 15 mm	HE6C/15W
		1/2" BSP x 15 mm (Extended)	HE6E/15W
		1/2" BSP x 22 mm	HE6CB/22W
		3/4" BSP x 22 mm	HE6C/22W
	Universal Wall Plate Elbow Non DZR Brass	1/2" BSP x 15 mm	HE6A/15W
	Tee - Female Threaded Branch Non DZR Brass	15 mm x 1/2" BSP Branch	HE16/15W
		22 mm x 1/2" BSP Branch	HE16/22W
	Cylinder Connector Spigot DZR Brass	1" BSP x 22 mm spigot	HX34/22W

DZR = Dezincification Resistant Brass

Selection of Brassware Fittings range between DZR and non-DZR families depends on local regulations applying in each market.







Wavin Hep2O - Product List




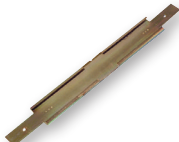



	Description	Dia mm	Packaging (bag)	Article code
	Gate Valve - Hot/Cold	15 mm x 15 mm	5	HX35/15W
	DZR Brass Brass fitted with Hep2O ends (suitable for hot and cold water and central heating)	22 mm x 22 mm	5	HX35/22W
	Stopcock - Cold Water	15 mm x 15 mm	5	HX36/15W
	Fitted with Hep2O ends (for cold water use only)	22 mm x 22 mm	5	HX36/22W
	Stopcock - Cold Water Hep2O to MDPE/HDPE conversion 22 mm Hep2O to 25 mm MDPE/HDPE	25 mm MDPE/HDPE x 22 mm Hep2O	5	HX43/22W
	Shut-off Valve Shut-off valve with hot/cold indicator insert (not for use with central heating)	15 mm	5	HX37/15W
	Appliance Valve Appliance valve with hot/cold indicator insert (not for use with central heating)	15 mm	5	HX 38/15W
	Lever Ball Valve	15 mm x 15 mm	5	HX22/15W
	Plated Brass (suitable for hot and cold water and central heating)	22 mm x 22 mm	5	HX22/22W
	Double-Check Valve	15 mm x 15 mm	1	HX72/15W

	Description	Dia mm	Article code
	Manifolds, Closed Spigot Type Polybutylene	2 Port 22 x 15 mm	HX88/22W
		3 Port 22 x 15 mm	HX89/22W
	Manifolds, Socket to Socket Type Polybutylene	2 Port 22 x 15 mm	HX88B/22W
		3 Port 22 x 15 mm	HX89B/22W
	Manifolds, Plated Brass with Taps	2-Port 3/4" x 15 mm	HX92T/15W
		3-Port 3/4" x 15 mm	HX93T/15W
		4-Port 3/4" x 15 mm	HX94T/15W
	Manifold end-caps	3/4" BSP Female	HX97 GY
		3/4" BSP Male	HX98 GY

Wavin Hep2O - Product List

3. Hep2O fittings - accessories

	Description	Dia mm	Article code
	Screws For use with Wall Screw Elbows series HE6 and HX6	M6 x 6 mm (100 Pack)	HE6S GR
	Lubricant 400 ml Aerosol Can	Joint Lubricant Spray	HX200
	SmartSleeve	15 mm 22 mm 28 mm	HX60/15W HX60/22W HX60/28W
	Copper Pipe End Protector	15 mm 22 mm	HX61/15W HX61/22W
	Pipe Clip - Screw Type	15 mm 22 mm 28 mm	HX85/15W HX85/22W HX85/28W
	Pipe Clip Spacer	15 mm 22 mm	HX86/15W HX86/22W
	Pipe Clip - Cable Type	15 mm 22 mm 28 mm	HX65/15W HX65/22W HX65/28W
	Blanking Peg For Demountable Fittings	15 mm 22 mm 28 mm	HX44/15W HX44/22W HX44/28W

	Description	Dia mm	Article code
	HepKey Plus For Demountable Fittings	15 mm	HX79/15W
		22 mm	HX79/22W
		28 mm	HX79/28W
	HepTool For Demountable Fittings in restricted access locations	10 and 28 mm	HX77/10W
		15 and 22 mm	HX77/15W
	Hep2O Joint Testing Kit Used to pressure test Hep2O installations at site. See pages 54-55 of the Hep2O Installer Guide for details of test procedures.		HX81 GR
	Terminal Back Plate	Terminal back plate	HX103 BL
		Back plate flat	HX103A GR
	Conduit Terminal	1/2" BSP x 15 mm	HX101/15W
	Cold Forming Bend Fixture Metal with passivate finish	15 mm	HX75/15 GR
		22 mm	HX75/22 GR
	Pipe Cutters	For pipe diameter up to 28 mm max. (standard)	HD74 GR
		For pipe diameter up to 25 mm max. (procutter)	HD75 GR
		For pipe diameter up to 42 mm max. (ratchet)	HD77 GR
		For pipe diameter up to 28 mm max. (ratchet)	HD78 GR

4. Making connections

Joining with Hep2O pipe and fittings

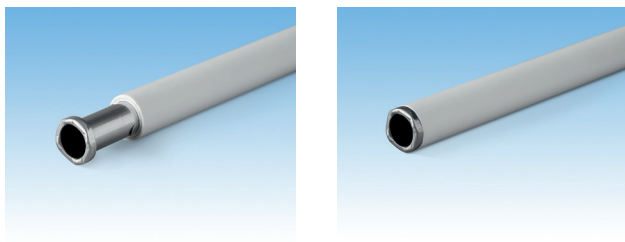
SmartSleeve™ pipe support sleeve

Before making a joint using Hep2O pipe, it is essential to insert a Hep2O SmartSleeve™ pipe support sleeve into the cut pipe end. The only exception is when connecting to the open spigot end of a Hep2O fitting.

The SmartSleeve™ has several purposes:

- It ensures the pipe retains its circular cross-section under all operating conditions.
- It eases insertion of the pipe into the fitting.
- The profiled end of the SmartSleeve™ helps you to check the pipe is fully inserted. See In4Sure™ joint recognition technology.
- It maintains the rigidity of the pipe within the fitting.
- Barbs on the SmartSleeve™ lock it in the pipe, which helps ensure it is not left in the fitting when demounting.

All SmartSleeve™ pipe inserts are manufactured from 'food quality' 316 stainless steel and are impervious to contaminants. They are designed to be captive in the pipe but can be removed if required, using long nosed pliers. However, if damaged, the SmartSleeve™ must not be re-used.



Inserting SmartSleeve™ into pipe.

Joining procedure

Whichever type of Hep2O fitting is used, the same joining procedure should be followed.



Photo 1.



Photo 2.



Photo 3.

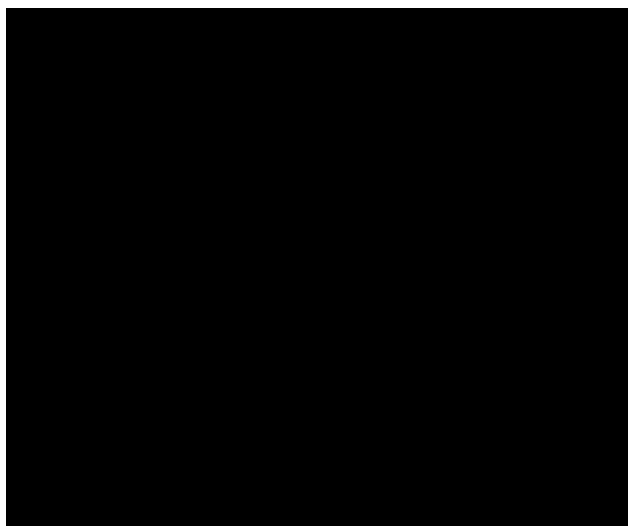


Photo 4.

1. Cut the pipe squarely at one of the '∧' marks using recommended pipe cutters and ensure the pipe end is free from burrs.
2. Insert a Hep2O SmartSleeve™ pipe support sleeve into the pipe end.
3. Push the pipe firmly into the fitting, then use Hep2O's unique In4Sure™ joint recognition technology to 'feel' if the pipe is fully inserted.
4. Tug back on the pipe to ensure the grab-ring engages correctly and prevents the pipe withdrawing.

Joining copper pipe to Hep2O fittings

Hep2O fittings have been designed to form reliable joints with metric copper pipe which conforms to BS EN 1057 - R520.



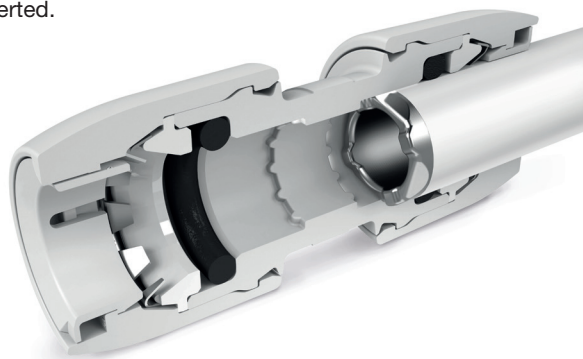
Hep2O fittings are also compatible with copper pipe

1. Measure the pipe, allowing sufficient length for insertion into the fitting, and mark with a pencil.
2. Cut the copper pipe with a wheel cutter.
3. Carefully inspect the pipe ends for burrs or swarf.
4. Push the pipe firmly into the fitting.
5. Tug back on the pipe to ensure the grab-ring engages correctly and prevents the pipe withdrawing.

Checking the joint using In4Sure™ joint recognition technology

Follow normal procedure to establish the insertion depth of the pipe into the fitting as previously described.

In4Sure™ joint recognition technology then provides a further check by allowing you to 'feel' if the pipe is fully inserted.



Cut-away showing In4Sure™ joint recognition technology

To use In4Sure™ joint recognition technology:

1. Hold the centre (fixed) part of the fitting in one hand.
2. After inserting the appropriate pipe sleeve, push the pipe firmly into the fitting.
3. While still pushing, rotate the pipe using a screwing action. If the pipe is fully inserted you will feel a 'rumbling' sensation as the profiled end of the SmartSleeve™ passes over the castellated seat inside the fitting.
4. Pull back to check the joint integrity.

This simple procedure is designed to give you the peace of mind that comes from knowing that the joint is good. You can also make a visual check by checking the next 'Λ' mark is level with the end of the fitting.

Note:

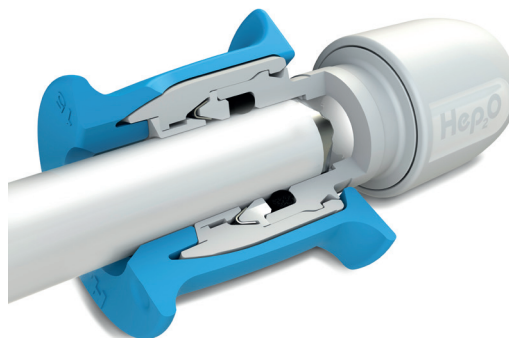
New pipe insert for copper providing joint recognition will be available soon.

Demounting joints using the Hep2O HepKey™ system

The HepKey Plus™ is colour-coded: **15 blue**, **22 purple** and **28 mm orange**.



HepKey Plus™



Cut-away drawing of HepKey Plus™

To use HepKey Plus™:

1. Place the HepKey Plus™ around the pipe
2. Clip HepKey Plus™ over the fitting
3. In this position it depresses the inner release ring of the fitting.
4. Withdraw the pipe from the fitting.

Note:

Before re-using the fitting we recommend applying a small amount of Jointing Lubricant Spray (code HX200) to the O-ring seal inside the fitting.



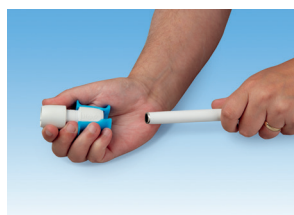
Step 1.



Step 2.



Step 3.



Step 4.

Demounting sequence using HepKey Plus™

Documentation

The following documentation on the Wavin Hep2O system is also available:

- Data sheet
- Installer Guide

Wavin Hep2O Push-fit plumbing system

Product List



Wavin has an extensive range of plastic pipe systems for the following market segments:

■ Drinking water supply

- hot & cold water systems
- water supply systems

■ Waste water discharge

- soil & waste systems
- sewer systems

■ Storm water management

■ Other systems

- telecom
- pipeline renovation
- gas supply systems

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Wavin Overseas B.V.
Stationsplein 3, 8011 CW
P.O. Box 173, 8000 AD ZWOLLE
The Netherlands

Phone: +31(0)38 - 4294 951
Fax: +31(0)38 - 4294 950
E-mail: wavin.overseas@wavin.com

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