

Wavin Hep2O Flexible PB
Push-fit plumbing system



PRODUCT & TECHNICAL GUIDE

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

2. Hep20 fittings

	Description	Dia mm	Packaging (bag)	Article code
	Straight Connectors	15 mm	10	HD1/15
		22 mm	10	HD1/22
		28 mm	10	HD1/28
	Socket Reducer	22 mm x 15 mm	10	HD2/22
		28 mm x 22 mm	15	HD2/28
	Elbow 90°	15 mm	10	HD5/15
		22 mm	10	HD5/22
		28 mm	10	HD5/28
	Elbow 90° Single Socket	15 mm	10	HD4/15
		22 mm	10	HD4/22
	Obtuse bend 135° Single Socket	15 mm	10	HD8/15
		22 mm	10	HD8/22
	Equal Tee	15 mm	10	HD10/15
		22 mm	10	HD10/22
		28 mm	10	HD10/28
	End Reduced Tee (dimensions: end x end x branch)	22 x 15 x 22 mm	5	HD12/22
		28 x 22 x 28 mm	5	HD12/28
	Double End Reduced Tee (dimensions: end x end x branch)	15 x 15 x 22 mm	5	HD 18/22
		22 x 22 x 28 mm	5	HD 18/28
	Branch Reduced Tee (dimensions: end x end x branch)	22 x 22 x 15 mm	5	HD13/22
		28 x 28 x 22 mm	5	HD13/28
		28 x 28 x 15 mm	5	HD13A/28

Wavin Hep20 - Product List

	Description	Dia mm	Packaging (bag)	Article code
	Branch Reduced Spigot Tee (dimensions: end x end x branch)	22 x 22 x 15 mm	5	HD15/22
	Branch & One End Reduced Tee (dimensions: end x end x branch)	22 x 15 x 15 mm 28 x 22 x 22 mm	5 5	HD14/22 HD14/28
	Demountable Stop End	15 mm 22 mm 28 mm	10 10 10	HD62/15 HD62/22 HD62/28
	Tank Connector For cold water only	1/2" BSP x 15 mm 3/4" BSP x 22 mm	10 10	HX20/15 HX20/22
	Straight Tap Connector	1/2" BSP x 15 mm 3/4" BSP x 15 mm 3/4" BSP x 22 mm	10 5 5	HD25A/15 HD25B/15 HD25B/22
	Tap Connector Spanners For use with HD25 and HD27 tap connectors	BSP 1/2" BSP 3/4"	10 10	HX54 HX54A
	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	10 10 10	HD26A/15 HD26B/15 HD26B/22
	Flexible Tap Connectors 300 mm	BSP 1/2" x 15 mm BSP 3/4" x 15 mm BSP 3/4" x 22 mm	1 1 1	HD125A/15 HD125B/15 HD125B/22

BSP = British Standard Pipe Thread

2. Hep2O fittings - continued

	Description	Dia mm	Packaging (bag)	Article code
	Flexible Tap Connectors 500 mm	BSP 1/2" x 15 mm BSP 3/4" x 15 mm BSP 3/4" x 22 mm	1 1 1	HD225A/15 HD225B/15 HD225B/22
	Bent Tap Connector	1/2" BSP x 15 mm	10	HD27/15
	Adaptor - Female BSP/Hep2O Socket DZR Brass	1/2" x 15 mm 3/4" x 22 mm 1" x 28 mm	10 10 10	HX28/15 HX28/22 HX28/28
	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	10 10 10	HE28/15 HE28/22 HE28/28
	Adaptor - Male BSP/Hep2O Socket DZR Brass	1/2" BSP x 15 mm 3/4" BSP x 22 mm 1" BSP x 28 mm	10 10 10	HX29/15 HX29/22 HX29/28
	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	10 10 10	HE29/15 HE29/22 HE29/28
	Adaptor - Female BSP/Hep2O Spigot DZR Brass	1/2" BSP x 15 mm 3/4" BSP x 22 mm 1" BSP x 28 mm	10 10 10	HX30/15 HX30/22 HX30/28
	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	10 10 10	HE30/15 HE30/22 HE30/28

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
	Adaptor - Male	1/2" BSP x 15 mm	10	HX31/15
	BSP/Hep2O Spigot	3/4" BSP x 22 mm	10	HX31/22
	DZR Brass	1" BSP x 28 mm	10	HX31/28
	Adaptor - Male	1/2" BSP x 15 mm	10	HE31/15
	BSP/Hep2O Spigot	3/4" BSP x 22 mm	10	HE31/22
	Non DZR Brass	1" BSP x 28 mm	10	HE31/28
	Draincock Brass 15 mm spigot DZR Brass	15 mm	10	HX32/15
	Wall Plate Elbow	1/2" BSP x 15 mm	5	HX6/15
		3/4" BSP x 22 mm	5	HX6/22
	Wall Screw Elbow Non DZR Brass	1/2" BSP x 15 mm	5	HE6C/15
		1/2" BSP x 15 mm (Extended)	5	HE6E/15
		1/2" BSP x 22 mm	5	HX6CB/22
		3/4" BSP x 22 mm	5	HE6C/22
	Universal Wall Plate Elbow Non DZR Brass	1/2" BSP x 15 mm	5	HE6A/15
	Tee - Female Threaded Branch Non DZR Brass	15 mm x 1/2" BSP Branch	5	HE16/15
		22 mm x 1/2" BSP Branch	5	HE16/22
	Cylinder Connector Spigot DZR Brass	1" BSP x 22 mm spigot	5	HX34/22

DZR = Dezincification Resistant Brass

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

2. Hep2O fittings - continued

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

Wavin Hep2O - Product List

	Description	Dia mm	Packaging (bag)	Article code
	Manifolds, Closed Spigot Type Polybutylene	2 Port 22 x 15 mm 3 Port 22 x 15 mm	5 5	HX88/22 HX89/22
	Manifolds, Socket to Socket Type Polybutylene	2 Port 22 x 15 mm 3 Port 22 x 15 mm	5 5	HX88B/22 HX89B/22
	Manifolds, Plated Brass with Taps	2-Port 3/4" x 15 mm 3-Port 3/4" x 15 mm 4-Port 3/4" x 15 mm	1 1 1	HX92T/15 HX93T/15 HX94T/15
	Manifold end-caps	3/4" BSP Female 3/4" BSP Male	5 5	HX97 HX98

3. Hep2O fittings - accessories

	Description	Dia mm	Packaging (bag)	Article code
	Screws For use with Wall Screw Elbows series HE6 and HX6	M6 x 6 mm (100 Pack)	100	HE6S
	Lubricant 400 ml Aerosol Can	Joint Lubricant Spray	1	HX200
	SmartSleeve	15 mm 22 mm 28 mm	50 50 20	HX60/15 HX60/22 HX60/28
	Copper Pipe End Protector	15 mm 22 mm	20 20	HX61/15 HX61/22
	Pipe Clip - Screw Type	15 mm 22 mm 28 mm	50 50 50	HX85/15 HX85/22 HX85/28
	Pipe Clip Spacer	15 mm 22 mm	20 20	HX86/15 HX86/22
	Pipe Clip - Cable Type	15 mm 22 mm 28 mm	50 50 50	HX65/15 HX65/22 HX65/28
	Blanking Peg For Demountable Fittings	15 mm 22 mm 28 mm	10 10 10	HX44/15 HX44/22 HX44/28

Wavin Hep2O - Product List

	Description	Dia mm	Packaging (bag)	Article code
	HepKey Plus For Demountable Fittings	15 mm	10	HX79/15
		22 mm	10	HX79/22
		28 mm	10	HX79/28
	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.		1	HX81
	Terminal Back Plate	Terminal back plate	1	HX103
		Back plate flat	1	HX103A
	Conduit Terminal	1/2" BSP x 15 mm	2	HX101/15
	Cold Forming Bend Fixture Metal with passivate finish	15 mm	5	HX75/15
		22 mm	5	HX75/22
	Pipe Cutters	For pipe diameter up to 28 mm max. (standard)	1	HD74
		For pipe diameter up to 25 mm max. (procutter)	1	HD75
		For pipe diameter up to 42 mm max. (ratchet)	1	HD77
		For pipe diameter up to 28 mm max. (ratchet)	1	HD78

4. Making connections

Jointing with Hep2O pipe and fittings

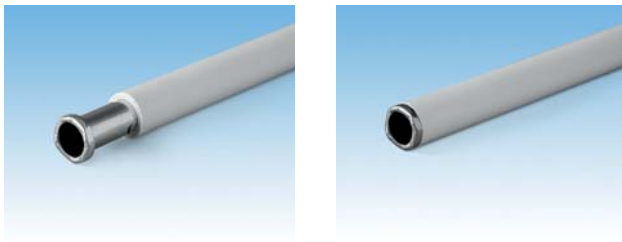
SmartSleeve™ pipe support sleeve

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

Jointing procedure

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



Photo 1.



Photo 2.



Photo 3.

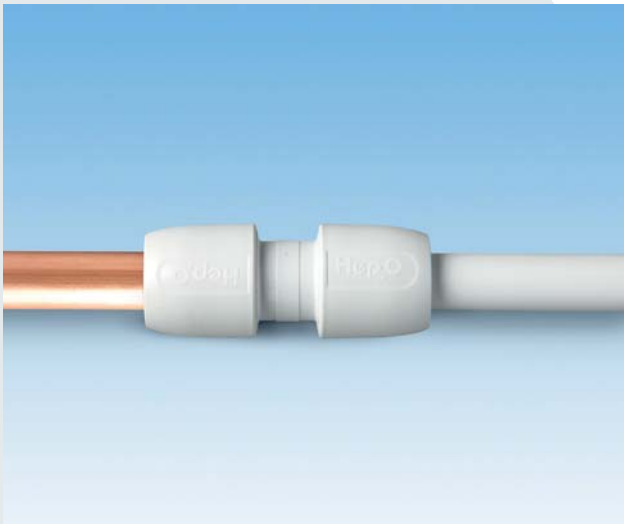


Photo 4.

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. Insert a Hep2O SmartSleeve™ pipe support sleeve into the pipe end.
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



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