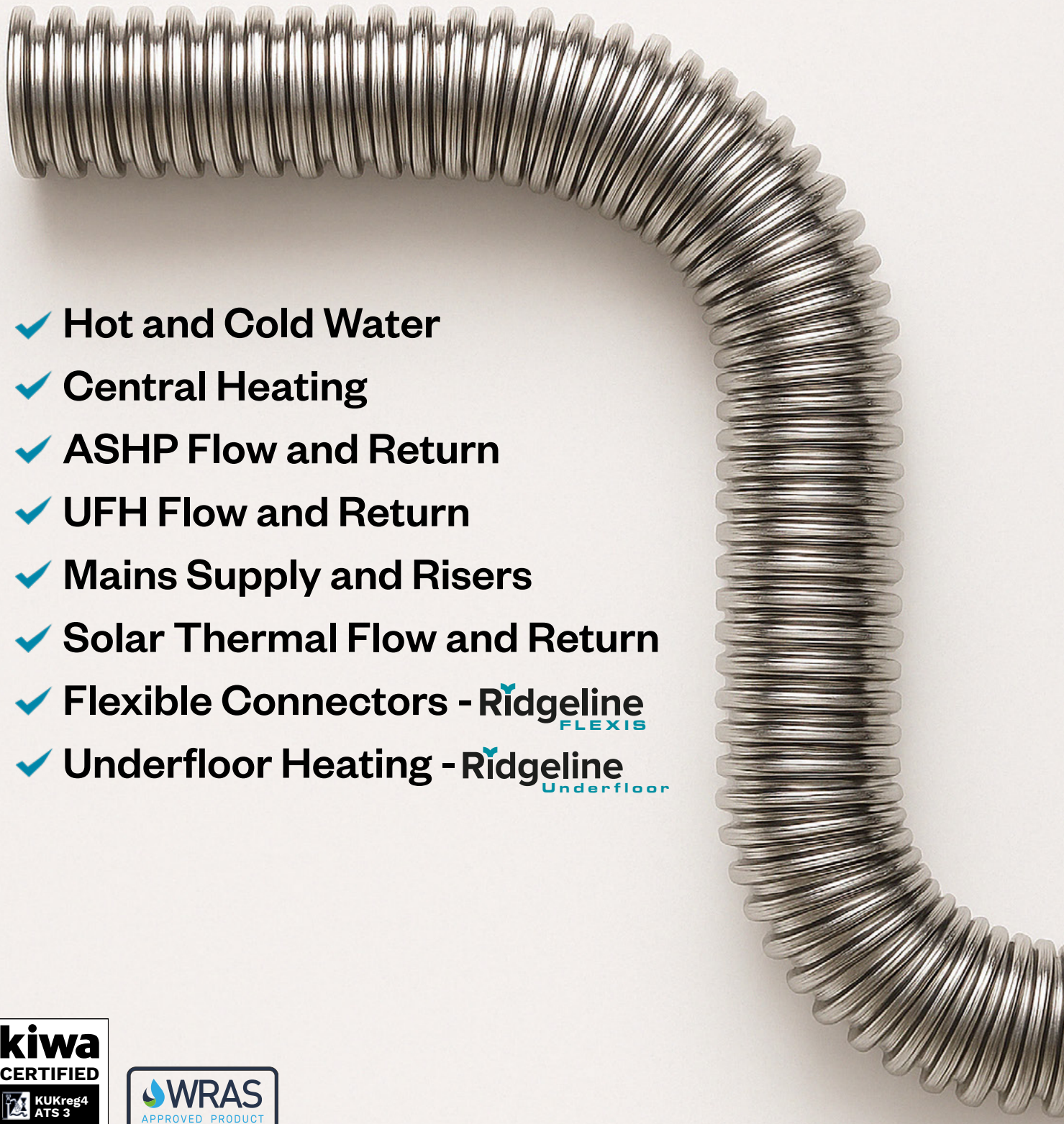
Ridgeline

Flexible stainless steel piping for all water installations



- Hot and Cold Water
- Central Heating
- ASHP Flow and Return
- UFH Flow and Return
- Mains Supply and Risers
- Solar Thermal Flow and Return
- Flexible Connectors - Ridgeline FLEXIS
- Underfloor Heating - Ridgeline Underfloor

kiwa CERTIFIED KUKreg4 ATS 3

WRAS APPROVED PRODUCT

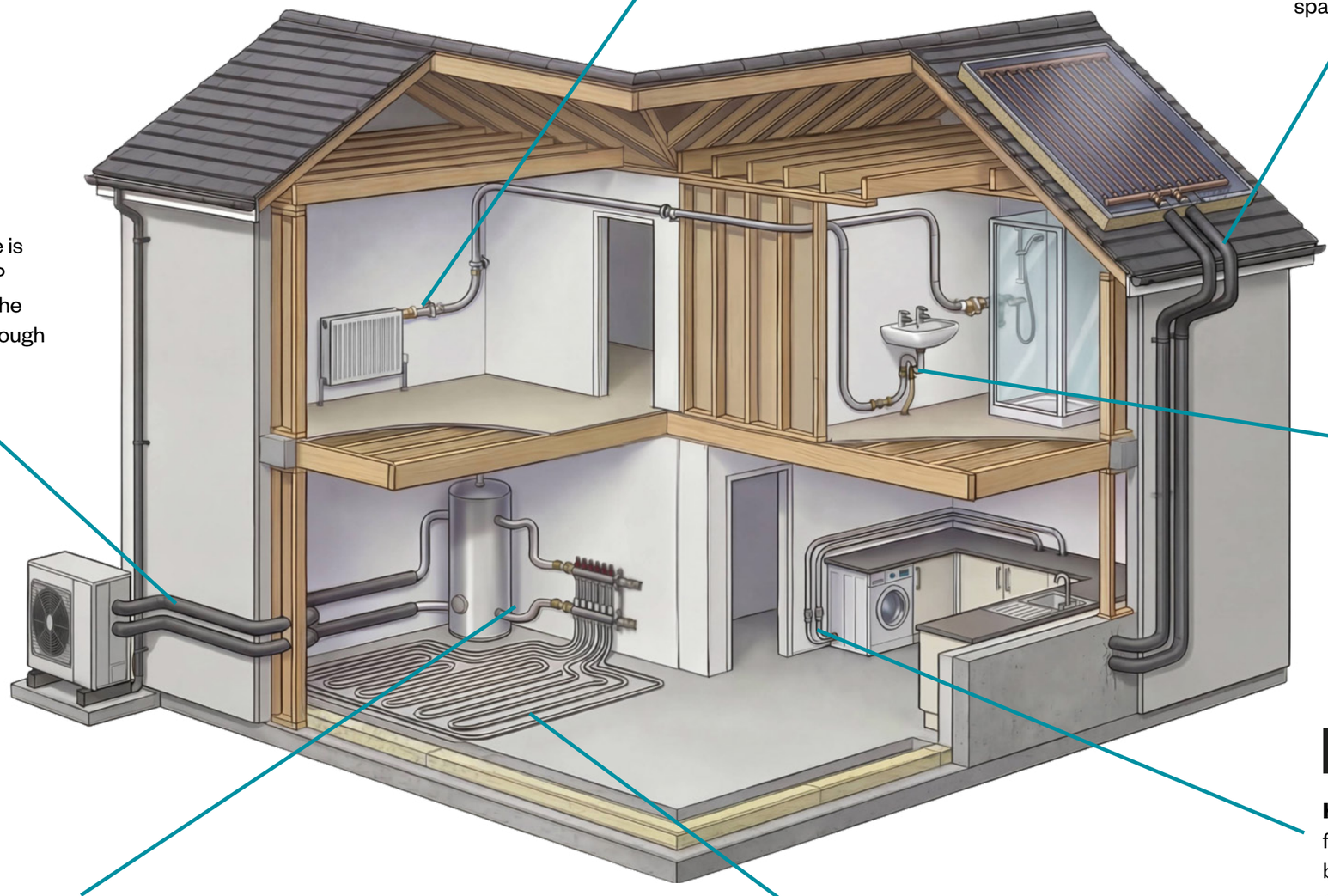
Corrugated stainless-steel, from start to finish. Ridgeline has you covered.

Ridgeline

Central Heating: Ridgeline makes up-sizing central heating pipework simple, especially when accommodating air source heat pumps. The corrugated tube routes easily through joists, walls and tight spaces with no hot works required.

Ridgeline HEAT-Connect

Solar Thermal Flow and Return: No fittings in the external pipework, easy routing through walls and tight spaces, no wastage.



Ridgeline HEAT-Connect

ASHP Flow and Return: Ridgeline is the perfect piping system for ASHP flow and return lines. No fittings in the external pipework, easy routing through walls and tight spaces, no wastage. Available insulated or uninsulated.

Ridgeline FLEXIS

Premium stainless steel flexible connectors. Impossible to kink, will never fray, and built to last. A direct replacement for braided rubber tap connectors.

Ridgeline

Hot and Cold Water: Ridgeline eliminates fittings and potential leak points from behind the wall. 100% stainless steel water contact with no risk of plastic leaching or contamination. Cleaner drinking water, fewer joints, faster installs.

Ridgeline

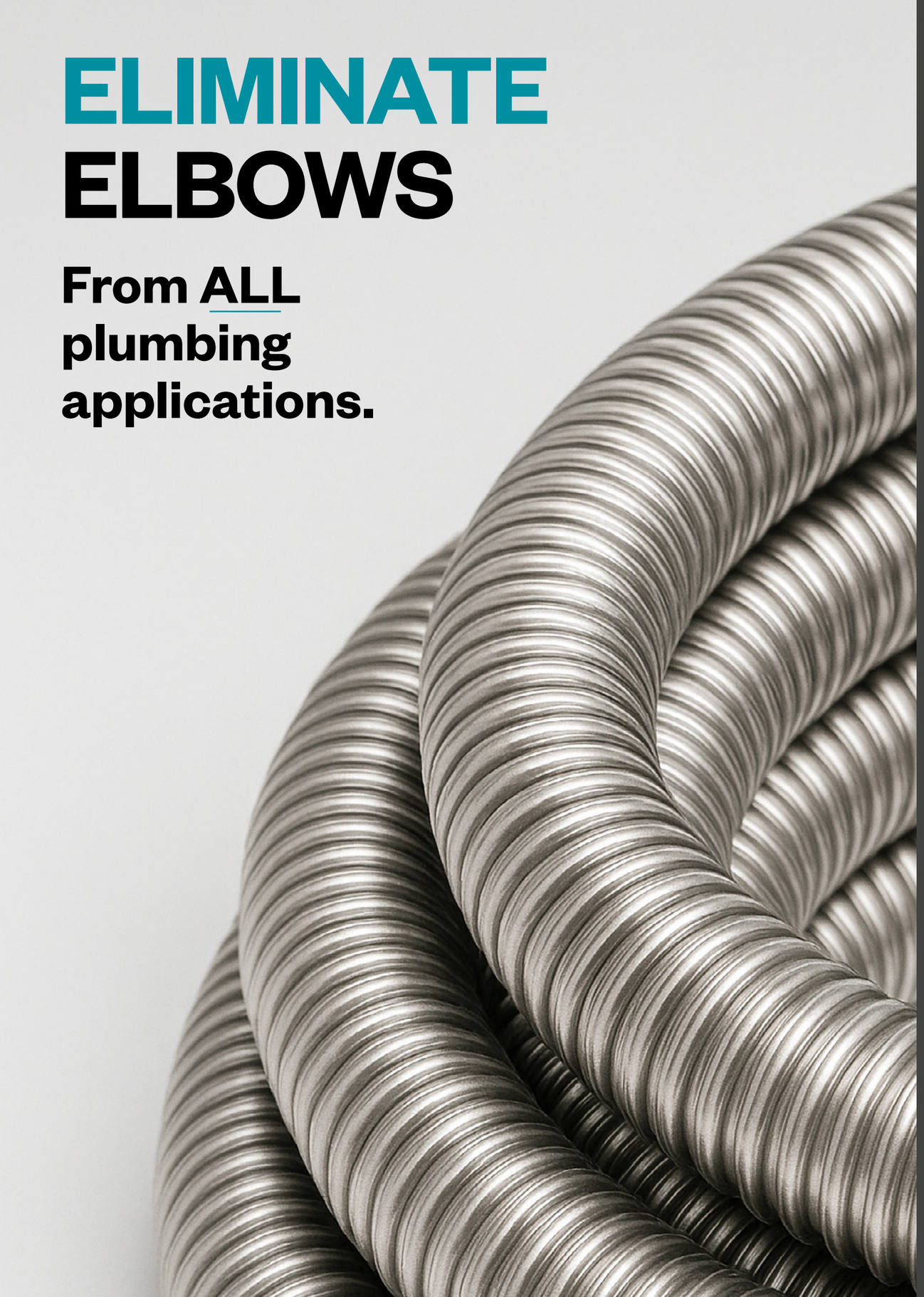
UFH Flow and Return: Ridgeline R-22 or R-28 for plumbing flow and return lines to UFH manifolds. Fast routing with minimal fittings. Compatible with both RidgeLock and P1 mechanical connections.

Ridgeline Underfloor

Corrugated stainless steel underfloor heating tube. Faster heat-up times, lower mean water temperatures, and improved system performance versus PEX. Way faster installs.

ELIMINATE ELBOWS

From ALL plumbing applications.



Ridgeline

Q: Why does eliminating elbows matter?

A: Every elbow in a plumbing system represents cost, time, and risk. By unlearning elbows with Ridgeline, you eliminate potential leak points behind walls, significantly reduce installation time, and create reliable, efficient installations.

Q: How does Ridgeline compare on cost?

A: Ridgeline delivers exceptional value through both material and labour savings. For 15-28mm sizes, the elimination of elbows and faster installation makes Ridgeline more economical than PEX on most projects. For 28-54mm sizes, the cost advantage grows further still, with significant savings on larger projects.

Q: So I can completely eliminate fittings from behind the wall?

A: Yes! This is exactly the point. Through intelligent system design, Ridgeline enables long, continuous runs without joints or fittings in concealed spaces. Not only does this save time and money during installation, but it also eliminates potential leak points forever, creating more reliable, maintenance-free plumbing systems.

Q: What sort of jobs is Ridgeline for?

A: Ridgeline is perfect for everything from domestic to commercial plumbing. It excels in hot/cold water systems, radiator connections, and all water installations. Its exceptional flexibility makes it ideal for complex renovations, straightforward refurbishments, and precision new builds, all with fewer connections and faster installation.

Ridgeline

15mm-28mm diameters

Each eliminated elbow saves on materials, time, and creates two fewer potential leak points. With Ridgeline, point-to-point installation becomes not just faster but more economical than PEX on most jobs.

28mm-54mm diameters

For larger projects, Ridgeline outperforms copper in every way. Pull continuous pipe runs through buildings like electrical cable, no joints, no soldering, no waste. Save dramatically on both installation time and total project costs. No hot works, and **no risk of copper theft.**

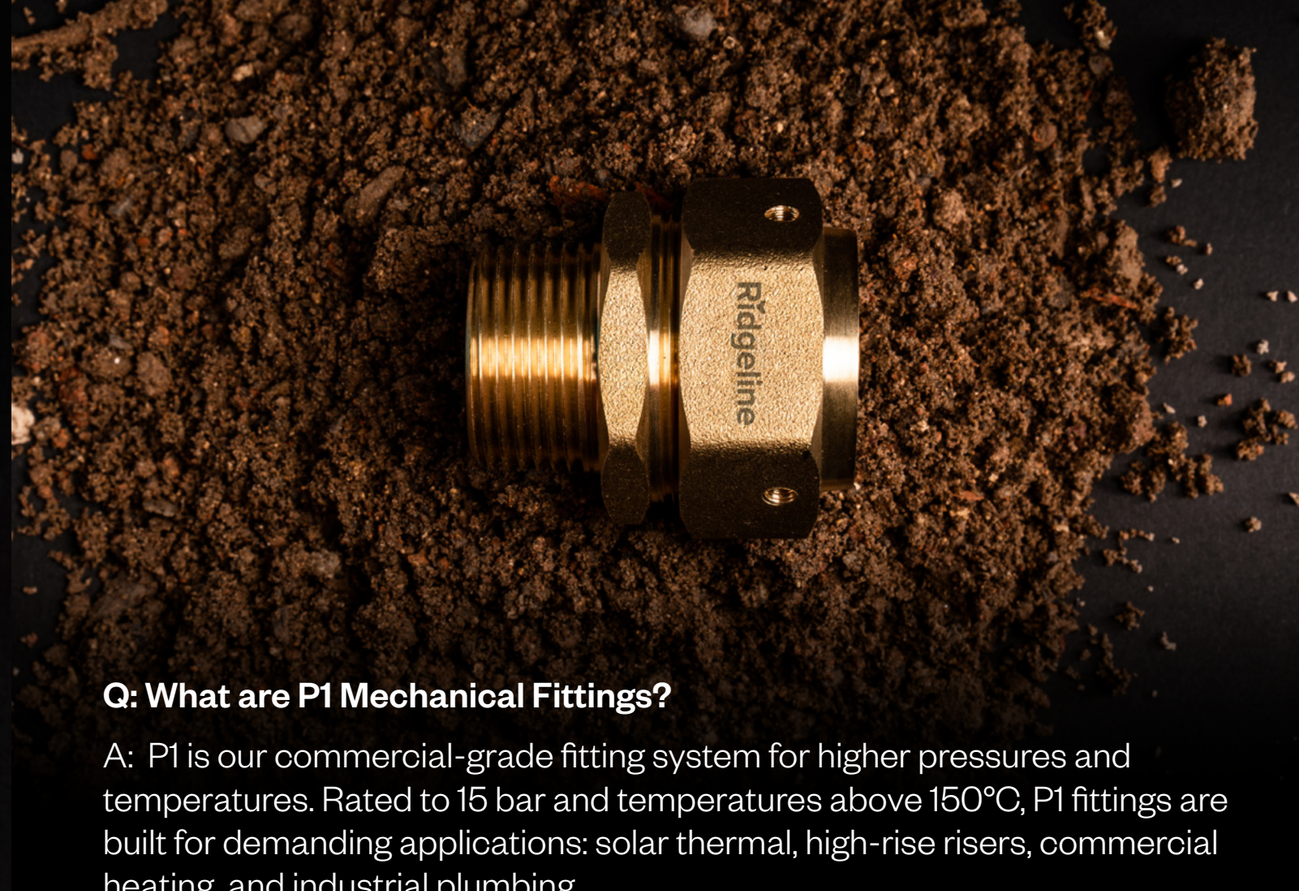
Ridgeline

Q: What are Ridgelock Adapters?

A: Our innovative RidgeLock™ technology transforms standard EN 1254 fittings into superior mechanical connections. By replacing the traditional olive with our patent-pending RidgeLock™ sealing ring, you fundamentally change the fitting - it's no longer a compression fitting but a positive mechanical interlock that maintains its integrity even under movement.

Use with:

- Domestic and residential plumbing
- Where fast and easy installation is required
- Pressures up to 10 bar, temperatures up to 85°C
- Pipe sizes up to 28mm
- Compatible with compression fittings already available from merchants across the UK



Q: What are P1 Mechanical Fittings?

A: P1 is our commercial-grade fitting system for higher pressures and temperatures. Rated to 15 bar and temperatures above 150°C, P1 fittings are built for demanding applications: solar thermal, high-rise risers, commercial heating, and industrial plumbing.

Three steps. That's it.

1. Cut. Use a standard wheel pipe cutter. Centre the cut in the valley between corrugations.

2. Slide. Slide the nut over the tube, then place the two semi-circular collars around the tube so the ridges sit in the last three valleys.

3. Tighten. Tighten with two spanners. The seal forms when the last corrugation deforms around the seat inside the fitting body. Mechanical, positive, metal-to-metal.

No crimping tools, no flame, no solder, no specialist certification. If you can tighten a nut, you can install P1.

Use with:

- Commercial, industrial, and demanding domestic plumbing
- Pressures up to 15 bar or high working temperatures
- Solar thermal systems (withstands temperature spikes above 200°C)
- All Ridgeline tube sizes (15mm - 54mm)

Ridgeline

You choose stainless steel for your water bottle.You check the label on your drinking water. You filter what comes out of the tap. But have you ever asked what your water touches between the mains and the glass?

Ridgeline is 316L stainless steel, the same grade used insurgical instruments, pharmaceutical production, and marine desalination.

It doesn’t leach.
It doesn’t degrade.
It doesn’t affect taste.

Q: Don’t corrugations cause pressure drop?

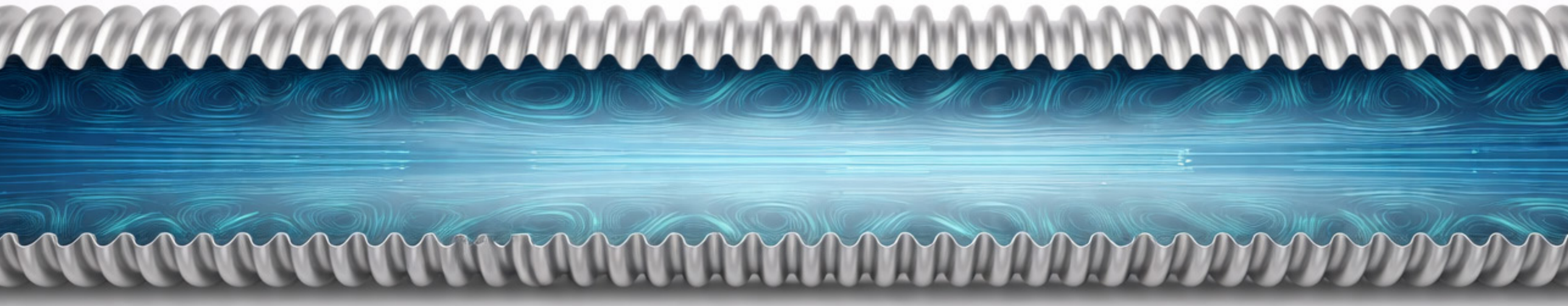
A: Yes, corrugations create turbulent flow, which increases per-metre pressure drop compared to smooth-bore pipe. But here’s what matters: total system pressure drop. A typical copper installation might need 10 to 15 fittings, each one adding equivalent pipe length. A Ridgeline run might need 2 or 3. When you calculate total system loss including all fittings, the numbers are often comparable.

But pressure drop is only half the story.

Corrugated pipe generates significantly higher wall shear stress than smooth-bore pipe at the same flow rate - around four to five times higher at typical domestic flow velocities. Wall shear stress is the mechanical force acting on the inner pipe surface, and peer-reviewed research has established that higher shear stress significantly reduces the likelihood of bacterial biofilm forming and persisting on pipe walls.

Grade 316L stainless steel is the material of choice in surgical, pharmaceutical, food processing, and brewing environments - industries where contamination tolerance is zero. Unlike plastic pipe, 316L does not leach the organic compounds that can feed microbial growth in water systems. Combined with the elevated shear forces generated by the corrugated profile, Ridgeline creates an environment that actively discourages biofilm establishment during normal use.

Of course, no pipe material is a substitute for good system design. Maintaining adequate flow velocities, managing temperatures correctly, and minimising dead legs and stagnation points remain the foundation of any water hygiene strategy. What Ridgeline offers is a system that supports these principles: fewer fittings means fewer stagnation points, an inert material means no nutrient source for bacteria, and P1 fittings allow the system to be flushed at temperatures above 100°C for thorough thermal disinfection.



Key Features

WRAS and KIWA Reg 4 approved.

RidgeLock adapters are compatible with any standard compression fitting for copper tube.

P1 mechanical fittings rated to 15 bar working pressure and working temperatures above 150°C.

Eliminating elbows and reducing fittings means eliminating potential leak points from behind the wall.

Significantly faster installation than copper. Easy routing, no specialist skills.

Impossible to kink. Pull through interior obstacles easily, even in 54mm.

Form bends by hand. The tube holds its shape once bent.

Can be buried in screed or the ground without additional protection.

Perfect for heat pump flow and return lines. Specialist underfloor heating version also available.

Project spools available in coils up to 500m. Metre-marked for easier installation.

Easy to uncoil and cut to length on site. Eliminates wastage.

No specialist tools required.

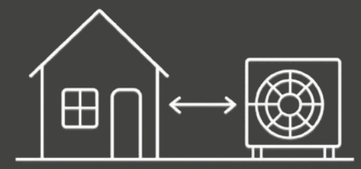
No hot works needed.

No risk of copper theft.

Withstands freeze and thaw events without damage.

Ridgeline

HEAT-Connect



Ridgeline HEAT-Connect for air source heat pump and solar thermal installations.

- No fittings in the external pipework.
- Easy routing, no wastage.
- Cut to length on site.
- Available insulated or uninsulated.
- Wide range of end fitting options.
- Optimised ID size available (that sits between 28mm and 35mm standard Ridgeline) available.
- Can withstand temperature spikes above 200°C (solar thermal) when used with P1 fittings.
- Available in lengths up 400m for industrial ASHP installations.
- Can withstand freeze / thaw events.

Ridgeline
Underfloor

UNLOCK THE POTENTIAL OF YOUR HEAT PUMP

Your heat pump deserves more than plastic pipe.

Ridgeline Underfloor is purpose-engineered to maximise heat transfer and system efficiency. Its innovative corrugated design works like a heat exchanger, increasing surface contact with water and reducing mean water temperature requirements, directly improving your heat pump's performance and reducing energy costs.

Watch our explainer video to find out more

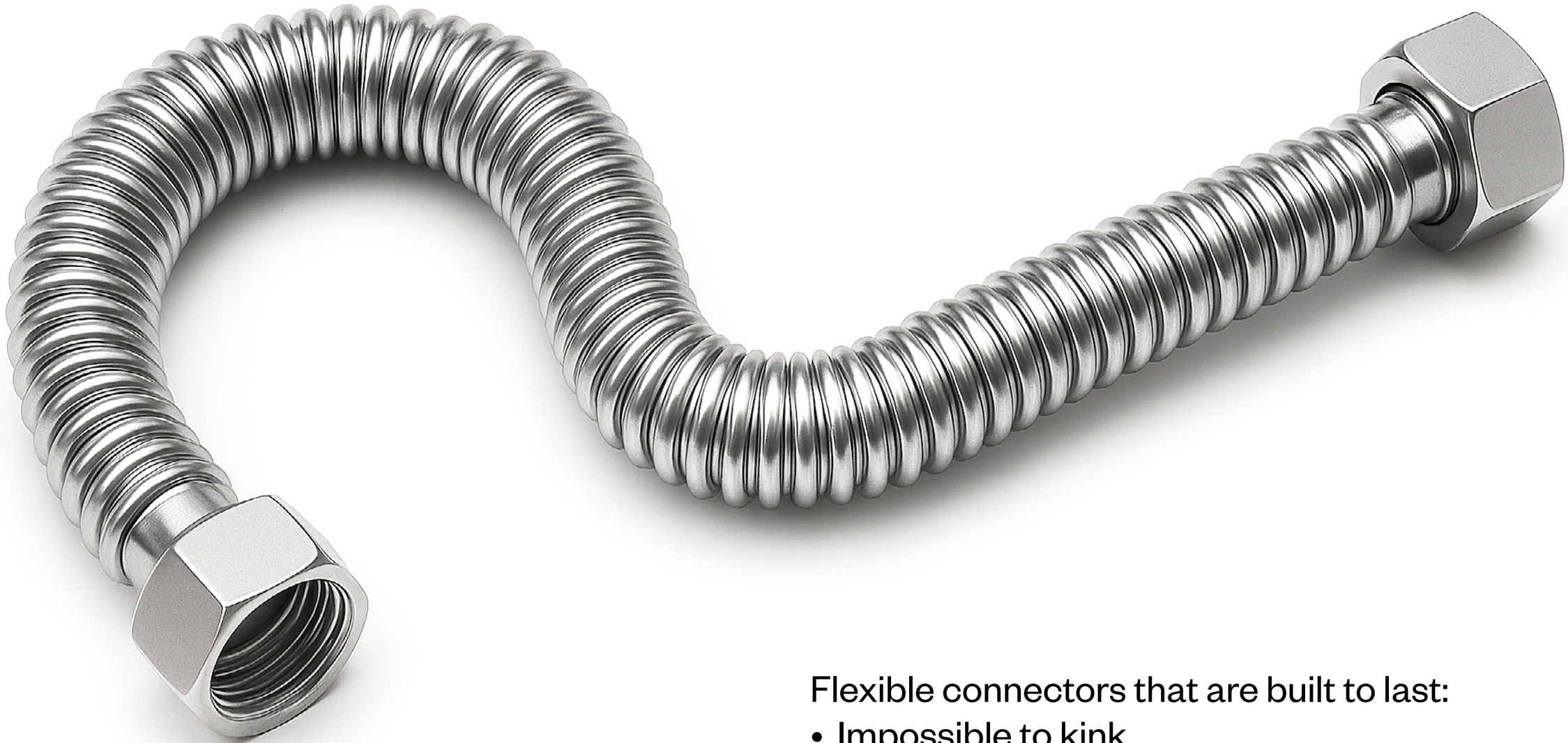
Ridgeline Underfloor installs up to 8x faster than PEX tube, offsetting the material investment through significant labour savings.

Watch our race video to find out more

Ridgeline FLEXIS

WRAS APPROVED PRODUCT

kiwa CERTIFIED KUKreg4 ATS 3



BUILT TO LAST.

Flexible connectors that are built to last:

- Impossible to kink
- Won’t fray
- Full bore
- No rubber or plastic in contact with drinking water. No chance of degradation.

Tools and more information

Ridgeline

Our Full Brochure
Discover more about all the benefits of Ridgeline and see our full range.

Technical Downloads
Download our spec sheet, cost comparison worksheets, sizing tools and more.

Ridgeline HEAT-Connect

Case Studies
Technical information for Ridgeline HEAT-Connect is the same as for Ridgeline, however follow QR code for specific case studies.

Ridgeline Underfloor

Our Full Brochure
Discover more about all the benefits of Ridgeline Underfloor and see our full range.

Technical Downloads
Download our spec sheet, full technical guide, sizing tools and more.

Ridgeline FLEXIS

Find Out More
Discover more about all the benefits of Ridgeline Flexis, including spec sheet and code lists.

01625 70 71 72
sales@Flexigas.com or visit Flexigas.com

Site Visit and Design Services
Contact us to arrange a site visit from one of our reps, conduct training, or for help designing your next project.