

Get ahead
with higher flow of 37%
New generation of fittings
and pipes made of PP-RCT

Discover our broad portfolio at wavin.com

Water management
Heating and cooling

Water and gas distribution
Waste water drainage



Wavin is part of Orbia, a community of companies working together to tackle some of the world's most complex challenges. We are bound by a common purpose: To Advance Life Around the World.

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Wavin PP-RCT Piping System



PP-RCT

Polypropylene Random Copolymer with Modified Crystallinity and Temperature Resistance

Wavin PP-RCT plumbing & mechanical hot & cold-water pressure piping distribution system is designed for a wide range of applications, such as residential, commercial, and industrial.

PP-RCT Advantages:

- ⦿ Certified for drinkable potable water service – NSF 61
- ⦿ Resistance to corrosion, tuberculation, deposits compared to metal piping systems
- ⦿ Heat-fused joints mean that no flame, glue, or solvents are used for joining. Pipe and fittings become one, with a nearly leak-proof connection
- ⦿ Lightweight, easy to fabricate off-site, transport, and handle on the job
- ⦿ Natural insulator, low thermal conductivity



Applications

Wavin PP-RCT is a plumbing & mechanical hot & cold-water pressure piping distribution system. It is designed for a wide range of applications, such as residential, commercial, HVAC and industrial. Its chemical resistant composition and the high pressure & temperature performance rating, makes the system suitable for a wide range of applications

Some of those most common field of applications are:



Hot & cold potable water plumbing distribution, for residential and commercial



Geothermal heating and cooling systems



Chilled water and condenser water for cooling towers, data centers, supercomputers



Industrial and process piping for applications such as chemical processes, semiconductor manufacturing, and high-purity pharmaceuticals.



Reclaimed water collection and distribution



Ship building industry



Hydronic distribution to radiators, convectors, fan coils, chilled beams, etc.



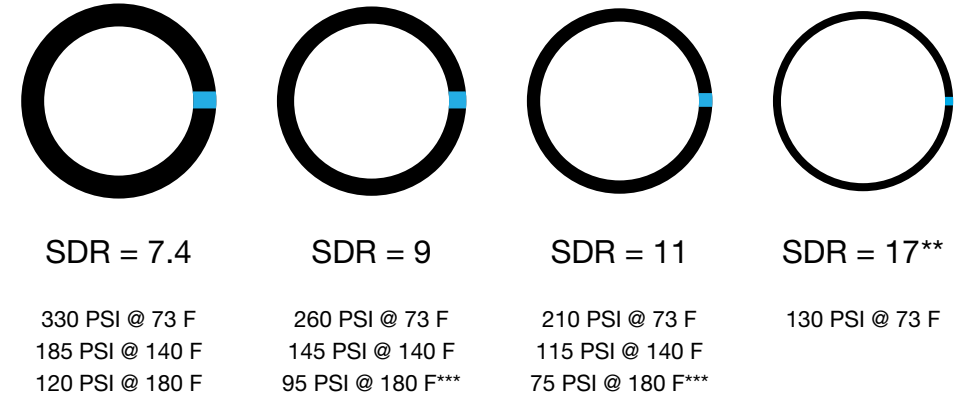
Irrigation

Product Offering

Wavin PP-RCT piping systems are manufactured in metric sizes. The pipes and packaging are marked in both metric sizes and imperial nominal dimension diameters. The tables provide a conversion from millimeters to inches based on similar dimensions and flow rate.

Wavin offers the following SDRs piping system in North America*

Minimum pressure ratings according per ASTM F 2389 requirements. For higher operating conditions please contact Wavin.



* SDR pictures shown are for illustration purpose only. They are not actual SDR dimensions.
 ** SDR17 coming soon. SDR 17 product is not typically used or rated at 140 F and 180 F.
 *** This rating does not comply with the 100 PSI minimum pressure rating requirements in plumbing codes.

Size Range:

- ⦿ 1/2" (20 mm) – 10" (250 mm)
- ⦿ Over 300 SKUs in pipes and fittings

Nominal Diameter Imperial	Actual Diameter Metric
inches	mm
1/2	20
3/4	25
1	32
1 1/4	40
1 1/2	50
2	63
2 1/2	75
3	90
3 1/2	110
4	125
6	160
8	200
10	250

Standards & Certifications

Wavin national and international standards and approvals pertinent to PP-RCT piping system

- ⦿ **NSF/ANSI 61-9 (Commercial Hot 180° F/82 °C)**
Suitable for potable water
- ⦿ **NSF/ANSI 14**
Meets piping performance requirements
- ⦿ **NSF/ANSI 372**
Standard for lead content in drinking water components
- ⦿ **ASTM F2389-21**
Standard specification for pressure rated polypropylene (PP) piping system
- ⦿ **CSA B 137.11**
Polypropylene (PP and PP-RCT) pipe and fittings for pressure applications

National Codes:

- ⦿ Uniform Plumbing Code (UPC)
- ⦿ Uniform Mechanical Code (UMC)
- ⦿ International Plumbing Code® (IPC)
- ⦿ International Residential Code® (IRC)
- ⦿ International Mechanical Code® (IMC)
- ⦿ National Plumbing Code of Canada
- ⦿ California Residential Code (CRC)
- ⦿ City of Los Angeles Residential Code
- ⦿ Code of Massachusetts Regulation (CMR)

International Standards:

- ⦿ **EN ISO 15874**
Plastic piping system for hot and cold water installation
- ⦿ **EN ISO 9001**
Quality management systems
- ⦿ **EN ISO 14001**
Standard for environmental management

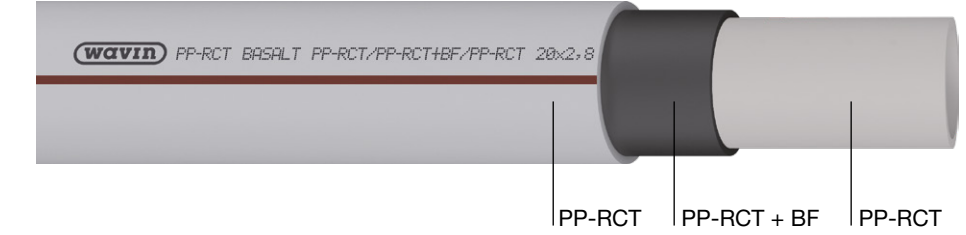


Why Wavin PP-RCT

Basalt Fiber

Wavin PP-RCT Basalt Fiber pipe is a multilayer pipe constructed with basalt (volcanic rock) fiber inner layer.

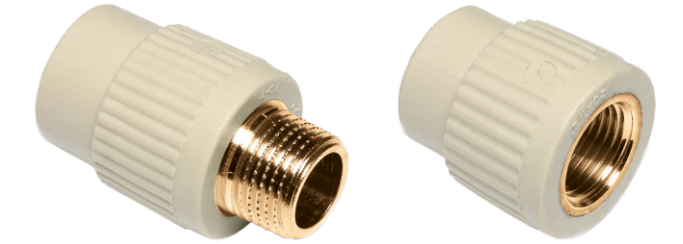
- ⦿ 3x reduction in expansion
- ⦿ Environmentally friendly
- ⦿ Simplified system design
- ⦿ Stronger pipe



Lead Free DZR Brass

Wavin PP-RCT brass adapters are made of C69300 alloy, a high-performance, lead-free* brass.

- ⦿ Lead Free High-performance brass Alloy - C69300
- ⦿ Excellent dezincification corrosion resistance (DZR)
- ⦿ Superior stress corrosion cracking resistance
- ⦿ Arsenic-free & Bismuth-free



*Metal alloy complies with ≤ 0.25% weighted average lead content on wetted surfaces in accordance with Safe Water Drinking Act (SDWA) Weighted

BIM & Design Center

Building Information Modelling (BIM) is changing the way we design and construct. Wavin is driving this change for the industry with the creation of Revit content packages with **integrated intelligent assistance**. With this intelligent assistance you can reach an accurate installation model of a pipe system in BIM the fastest way possible.

Wavin offers in-house design & calculation service with two SDCs – System Design Centers

- ⦿ Increases productivity
- ⦿ Saves time and money
- ⦿ Automatic configuration assistance
- ⦿ Ensures precision
- ⦿ Easy to use with a complete 'as built' pipe system
- ⦿ Eliminates errors
- ⦿ Fully integrated bill of materials

