

## Solvay's Radel® PPSU enables CiXi Zhenpeng to introduce the industry's first all-plastic stop valve for pressurized hot water systems in HVAC applications

**Alpharetta, Ga., July 10, 2017** – Solvay, a leading global supplier of specialty polymers, announced today that its high-performing Radel® polyphenylsulfone (PPSU) polymer enabled China-based CiXi Zhenpeng Plumbing Fittings Company to replace traditional brass in a new line of all-plastic valves targeting pressurized hot water systems used in Heating, Ventilation and Air Conditioning (HVAC) applications. Among Zhenpeng's new products is the industry's first all-PPSU stop valve to meet standards ASME A112.18.1-2012 and CSA B125.1-12, as tested by the International Association of Plumbing and Mechanical Officials (IAPMO).

*"Because stringent global regulations discourage the use of brass in pipe fittings for drinking water and HVAC systems, leading-edge innovators like CiXi Zhenpeng have increasingly sought to leverage Solvay's 30 years of experience in specialty polymer technology for this market,"* said Philippe-Jacques Leng, Global Construction Market Manager for Solvay's Specialty Polymers Global Business Unit. *"Zhenpeng's innovative all-PPSU stop valve did not simply reduce the presence of heavy metals in the part, it eliminated them entirely to offer system integrators a safer and more durable alternative for their customers."*

In addition to enabling Zhenpeng's all-PPSU stop valve, Solvay's high-performance polymer enabled a patented one-piece ball valve and valve rod design, a half-ball valve, and L-type and T-type valves. Radel® PPSU enables Zhenpeng's new products to eliminate corrosion and deliver reliable, long-lasting performance over the lifetime of today's HVAC systems. Zhenpeng's all-plastic valves and fittings are available for the U.S. market, and will be available in Europe in the near future.

Solvay's Radel® PPSU offers high fatigue resistance, strong chemical resistance and high impact strength, as well as the highest long-term hydrostatic strength (LTHS) of any sulfone polymer, making it well-suited for fittings used in multilayer piping systems that can operate under high pressure (up to 10 bar) and temperatures up to 95°C (203°F) for up to 50 years.

Solvay also offers Acudel® modified PPSU as a cost-effective alternative for plumbing applications with less demanding pressure and temperature requirements.

Solvay offers the industry's broadest selection of high-performance polymers for metal substitution applications in water handling systems. In addition to these two materials, its portfolio also includes Amodel® polyphthalamide (PPA), Ixef® polyarylamide (PARA), Ryton® polyphenylene sulfide (PPS), KetaSpire® polyetheretherketone (PEEK) and Omnix® high-performance polyamide (HPPA). Complementing these amorphous and semi-crystalline products, Solvay has various sulfone polymers that are suitable for hot water plumbing applications, including Udel® polysulfone (PSU) and Veradel® polyethersulfone (PESU). Solvay further offers Solef® polyvinylidene fluoride (PVDF), which has a proven fit in piping systems for ultrapure water, hot water and concentrated acids.

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#### About CiXi Zhenpeng Plumbing Fittings Co. Ltd.

Established in Cixi City in August 2000, CiXi Zhenpeng Plumbing Fittings Co. Ltd. is a supplier of PPSU fitting to global markets. Many of its products are certified under ASTM F2159, CSA B137.5, NSF / ANSI 61 standards. Learn more at <http://www.ppsu-pe-fittings.com/index.asp>.

#### About Solvay Specialty Polymers

Solvay Specialty Polymers manufactures over 1500 products across 35 brands of high-performance polymers – fluoropolymers, fluoroelastomers, fluorinated fluids, semi-aromatic polyamides, sulfone polymers, ultra-high performance aromatic polymers, and high-barrier polymers – for use in Aerospace, Alternative Energy, Automotive, Healthcare, Membranes, Oil and Gas, Packaging, Plumbing, Semiconductors, Wire & Cable, and other industries. Learn more at [www.solvayspecialtypolymers.com](http://www.solvayspecialtypolymers.com).

#### About Solvay

Solvay is a multi-specialty chemical company, committed to developing chemistry that addresses key societal challenges. Solvay innovates and partners with customers in diverse global end markets. Its products and solutions are used in planes, cars, smart and medical devices, batteries, in mineral and oil extraction, among many other applications promoting sustainability. Its light weighting materials enhance cleaner mobility, its formulations optimize the use of resources and its performance chemicals improve air and water quality. Solvay is headquartered in Brussels with around 27,000 employees in 58 countries. Net sales were € 10.9 billion in 2016, with 90% from activities where Solvay ranks among the world's top 3 leaders. Solvay SA ([SOLB.BE](http://www.solb.be)) is listed on Euronext Brussels and Paris (Bloomberg: [SOLB.BB](http://www.solb.bb) - Reuters: [SOLB.BR](http://www.solb.br)) and in the United States its shares (SOLVY) are traded through a level-1 ADR program.

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