

Technical information for PPSU fittings



AC-FIX PLASTIC RING



AC-FIX PRESS

Material:

Polyphenylsulfone RADEL R 5100 (PPSU).

The PPSU is a high-performance plastic, totally suitable for use with drinking water.

Water resistance and safety:

This material is not affected by hydrolysis (chemical reaction).

Zero migration of metal oxides to water.

Thermal resistance:

This material is able to withstand temperatures up to 170 °C.

(See the complete table of Fields of Application in the catalog to know the Design Temperatures).

AC-FIX fittings made of PPSU:

The AC-FIX fittings of PPSU are incredibly durable and resistant, withstanding strong impacts without fracturing.

In addition, the AC-FIX fittings of PPSU have the following advantages:

- Increased resistance to corrosion.
- Lower load loss.
- Much lighter than the brass fittings.
- More competitive price than brass fittings due to lower production cost.

Chemical resistance:

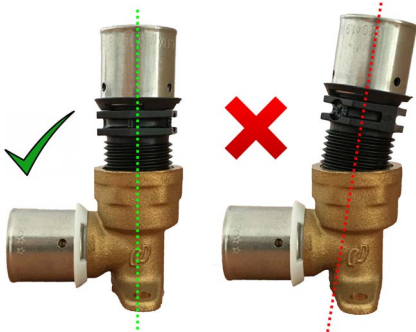
The PPSU is resistant to mineral acids, alkaloids and salt solutions. Resistance to detergents and hydrocarbon oils is good, even at high temperatures under moderate pressure levels. Organic compounds, other than ketones, not seriously affect this material.

They should be avoided: esters (e.g. ethylacetate), acetone of methylene chloride, trichorethylenes, cyclohexane, chlorobenzene, tetrachlorethylene, toluene, xylene and benzene.

Some chemical products can damage the PPSU fittings. Contact our technical department.



Install the plastic (PPSU) male thread completely straight and aligned with the metal female thread to prevent breakage of the strands of the thread:



Forbidden and suitable products for use with AC-FIX fittings of PPSU:

SUITABLE	FORBIDDEN
PTFE tapes according to standard EN 751-3 FRp.	Ever Seal Thread 483
Loctite 5061	Loctite 518, 542 y 55
Loctite 5331	Scotch-Grip Rubber 1300
Loctite 516	Scotch-Grip Rubber 2141
	Scotch-Grip Rubber 847
	Rector Seal 5
	Rite-Lock, Selet Unyte

Proper assembly of AC-FIX threaded fittings of PPSU:

To join these fittings to others by the thread, you just need to apply PTFE tape on the plastic male thread:

- Start adding PTFE tape around since the bottom of the thread. Follow up leaving the first strand of the thread.
- Add the PTFE tape in the direction of clockwise to ensure a good seal between the threads.
- It will be easier for the threads to get a good threading if the first strands of the plastic male thread are free of PTFE tape.



The thickness of the PTFE tape should be:

- 0,076 - 0,1 mm for 1/2" threads
- 0,1 - 0,2 mm for 3/4" threads

Maximum tightening for 1/2" and 3/4" threads should be 15 Nm.

If the union is unscrewed, then it will be necessary to reapply PTFE tape.

Don't use hemp tape for sealing male threads.