

# APSOfluid® ASSIWELL® metal hoses help to harness the power of the sun

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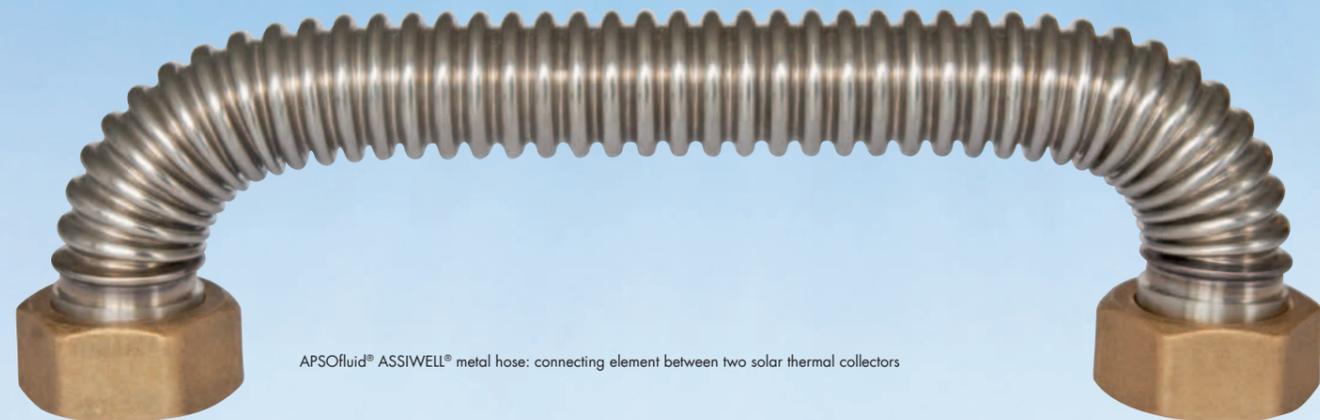
The sun is the earth's largest energy source – and it will most likely be available for the next five billion years. In times of dwindling natural resources, whoever makes a partner out of this energy source evinces wisdom, an innovative spirit and foresight. Angst+Pfister has been actively engaged in the area of renewable energy for years. One result of our commitment is Angst+Pfister's strong presence in the solar thermal energy sector. Our experience gained over many years has resulted in pathbreaking solutions. One example of our APSOfluid® solutions is the ASSIWELL® metal hose.

High-performance solar thermal collectors are undeniably the centerpiece of every solar heating system. They absorb the sun's energy and convert it into heat. But in order to be able to most efficiently use the collected heat, a number of further components are needed. The only way to harvest the maximum value from precious solar energy is for all of the elements of a solar heating system to work together without a hitch. The ASSIWELL® metal hose forms the perfect link between the individual components in the truest sense of the word.

## ASSIWELL® metal hoses for connections with a future

The heat gathered by the collectors must be transported to the heat accumulator via the closed solar circuit. This is where the ASSIWELL® metal hose comes into play as a connecting element between solar thermal collectors or as a riser tube in a house (see illustration below to the right). It exhibits all of the properties that predestine it for this job: the metal hose is flexible enough to offset potential installation inaccuracies, and thanks to its small flexion radius, awkward welding and soldering work is unnecessary, which greatly reduces the installation effort. A further advantage of the flexible corrugated hose is its ability to compensate thermal expansion. It goes without saying that the ASSIWELL® metal hose is extremely resistant to any kind of possible "attack".

It is resistant to the high temperatures that arise within the solar circuit, and it also stands out for its excellent ozone and UV resistance. Thanks to their ready availability, ASSIWELL® metal hoses can be supplied with short delivery times. And there is yet another plus: the outstanding value for money is sure to warm every heart.



APSOfluid® ASSIWELL® metal hose: connecting element between two solar thermal collectors



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In times of increasing natural resource scarcity, Angst+Pfister is banking on a virtually infinite resource: solar energy.



APSOfluid® ASSIWELL® metal hoses connect solar thermal collectors.

## Comprehensive solar thermal solutions with ASSIWELL® and Co.

ASSIWELL® metal hoses are not the only reason why Angst+Pfister is a highly esteemed partner in the solar thermal energy sector. The group has even more to offer. Under the APSOfluid®, APSOseal®, APSOplast®, APSOdrive® and APSOvib® brand names, Angst+Pfister consolidates a wideranging array of different product lines under one roof – with all of the customer advantages that result from these synergies.

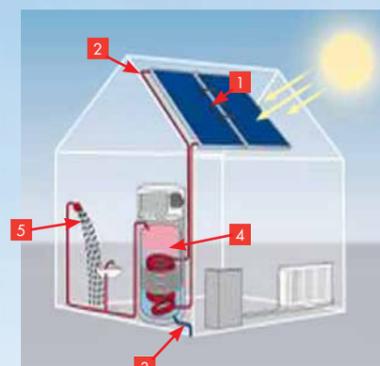
Continuous lively exchanges of knowledge and ideas with partners coupled with our many years of experience have given rise to profound interdisci-

plinary application know-how. Angst+Pfister's portfolio of products and services extends far beyond mere fluid-handling technology applications. It encompasses technical advice, efficient integration of further components such as seals, and the development of comprehensive customized solutions in the area of solar thermal energy.

## Follow the sun with Angst+Pfister

It is not unusual for seeming "supporting actors" to make significant contributions to maximizing value. As connecting links in the chain of individual solar thermal components, ASSIWELL® metal hoses exemplarily execute their assignment in the mission to extract heat from the sun's energy. Angst+Pfister meets the challenges of the moment with innovative spirit and vision. Open to addressing the pressing issues of today, the group is engaged in sustainable energy production and supports its customers in paving the way to most efficiently utilize the virtually limitless resource provided by the sun's energy.

### Closed solar heating system



- 1 Connection between the solar panels
- 2 Connection between the solar panels and the risers
- 3 Cold water
- 4 Storage tank
- 5 Warm water

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