Angst + Pfister
Industrial Components for the Solar Thermal Industry
Angst + Pfister – Comprehensive Solutions for the Solar Thermal Industry

Forward-looking products, innovational capabilities and an insightful understanding of customers’ needs make Angst + Pfister the ideal solutions and logistics partner for the solar thermal industry.

In addition to our extensive standard product ranges in the area of engineering plastics, sealing, fluid-handling, drive and antivibration technology, our interdisciplinary technical know-how and numerous years of engineering experience enable us to supply special customized solutions that are just as precisely tailored to customers’ specific requirements as our array of logistics services.

Working together to find successful solutions

Angst + Pfister provides end-to-end support. Combining high-grade components with extensive manufacturing expertise, our application engineers team up with you to develop innovative ideas and solutions that can be put into production sustainably, quickly and economically.

Optimize performance potential with expert support

Modern business realities pose challenges that even innovative products have to meet:
- shorter development lead times
- longer guarantee periods
- lower overall costs
- greater productivity through process optimization

At the same time, innovative procurement models enable businesses
- to reduce inventory amid enhanced supply capability
- to minimize procurement channels, and
- to lower procurement administration expenses

Angst + Pfister’s comprehensive customer service assists you in efficiently tackling these challenges by providing expert technical advice in the pre-project stage, extensive accompanying engineering know-how during the development stage and optimized logistics services for cost-effective supply of ideal components for your production operations.
Efficient Development and Production of Solar Collectors

**Optimize even the smallest details to achieve greater efficiency**

Efficiency and economy are hallmarks of sophisticated solar collectors. Hence, when developing new solar collectors, achieving the targeted performance values comes down to the tiniest details. Angst+Pfister helps you to find the ideal solution, for example, for:

- non-outgassing profile gaskets for glazing seals
- glass-retaining profiles for glass-retaining profiles
- weatherproof molded seals for connection feedthroughs (grommets)
- UV-resistant bellows for vacuum tubes
- flexible fastening concepts for tubular collectors
- innovative plug connectors for solar collectors

**Cost-optimized manufacturing thanks to reliable production equipment**

For numerous specialty equipment and pump manufacturers, Angst+Pfister – with its extensive product and process know-how – provides a platform for designing, selecting, and employing high-grade components, for example in the construction of:

- glass- and metal-working equipment
- welding machines
- automated processing equipment for molded foam parts
- coating deposition equipment
- vacuum technology
- industrial washing equipment
- pumps
- assembly equipment

Numerous components supplied by Angst+Pfister are used in a vast array of different types of equipment:

- finished and semi-finished parts made of high-grade engineering plastics
- seals of all kinds, such as dynamic seals, profiles and molded parts made of optimized materials
- hoses made of metal and other materials, as well as all kinds of connectors
- toothed belt and V-belt solutions for mechanical drive and conveyance technology
- gas springs
- optimized vibration dampers, leveling elements and machine mountings

Collaboration with Angst+Pfister also enables you to largely consolidate your C-parts supplier network, thus creating additional cost-cutting potential.
Safe and Durable Installation of Solar Heating Systems

Optimal utilization of available roof or wall space is a prerequisite for fully harnessing solar energy. Furthermore, the captured energy must be transmitted to the user with as little dissipation as possible. The ideal solar thermal installation absorbs the maximum amount of solar radiation and reliably transports the extracted heat energy to the point of consumption. Angst+Pfister can help you devise and implement powerful, flexible and durable solutions – on the roof just as well as in the piping.

Intelligently integrate solar collectors – with solutions from Angst+Pfister

Angst+Pfister supports and supplies you with pertinent ideas and components for solar thermal installations:
- corrugated hoses made to measure ①
- tool-free collector connectors ②
- insulated flexible metal solar piping, with anti-pick protection on request ③
- flat gaskets, O-rings and custom-molded seals ④
- roof ducts
- innovative mounting and covering profiles ⑤
- special hanger bolt seals, e.g. for covering larger bore holes or tolerances ⑥
Employing Intelligent Household Technology to Harness Energy

Solar collectors mounted on roofs or walls form the core of a solar thermal installation, but their work would be in vain without the help of high-performance peripheral equipment. Pumps, storage tanks, heat exchangers, controllers and fittings contribute to efficient, dependable, hygienic and economical operation of solar heating systems. Moreover, they should be flexibly adaptable to space constraints and should be space-saving and easy to install.

Components for pumps, storage tanks, heat exchangers, valves and fittings

Angst+Pfister supplies high-grade components for all areas of household technology:

- seals
- profiles
- molded parts
- hoses of all kinds (e.g. EPDM, PEX, etc.) and couplings for flexible connections
- corrugated stainless steel hoses certified for use in drinking water applications
- plastic covers and spacers
- machine mounts and vibration-damping elements

Angst+Pfister supplies a vast standard range of suitable components with regulatory compliance certifications. The engineers at Angst+Pfister can also work together with you to develop special customized solutions perfectly tailored to your needs.

Compliance certifications (abridged)
APSOsys® – System Supply Management with Angst+Pfister

APSOsys® supply chain integration provides you with customized solutions that enable you to reduce procurement costs, enhance R&D productivity and lower your working capital.

**Extensive product offering through efficient procurement**

Angst+Pfister’s modular concept is extremely flexible and distinguishes itself through:
- a global sourcing policy that ensures constant product availability and best market prices
- a deep and wide product assortment of more than 150,000 standard items
- integrated electronic procurement solutions (EDI, E-Shop APSOparts®)

**Comprehensive engineering services for the solar thermal industry**

You benefit from Angst+Pfister’s vast technical expertise and our comprehensive portfolio of services, which features for example:
- design-in and optimization support using CAD and CAE tools
- specification and procurement of optimal materials and requisite regulatory compliance certifications
- provision of industry-specific technical seminars and training courses

Angst+Pfister has developed numerous customized solutions in the solar thermal sector:
- specific sealing technology materials to meet continually increasing demands with regard to temperature and chemical resistance (e.g. glycol)
- easy-to-install mounting profiles
- innovative, specially designed hanger bolt seals to compensate tolerances
- weatherproof hose and cable grommets
- all kinds of custom-fabricated stainless steel hose assemblies
- precisely fitting plastic parts for buffer tanks

**Demand-driven logistics and guaranteed quality assurance**

Angst+Pfister provides logistics solutions that precisely match customers’ needs. Our kanban and just-in-time (JIT) supply concepts help to reduce your working capital. Angst+Pfister ensures reliable demand-driven parts supply through its:
- state-of-the-art logistics center with more than 150,000 different stock-keeping units
- fabrication workshops for parts processing, prototyping and subassembly
- supply management with fast delivery times that you can count on
- ISO 9001:2008-certified complete quality assurance system
Angst + Pfister as a Partner for the Solar Thermal Industry

**Efficient development and production of solar collectors**
Your success on the market inextricably depends on forward-looking, economical, cost-optimized development and production of solar collectors. With Angst + Pfister, you have an expert partner always by your side in all matters.

**Safe and durable installation of solar heating systems**
Stable but flexible installation concepts are crucial for reliable operation of solar heating systems. Angst + Pfister supplies flexible solutions for secure installation of solar collectors on roofs and walls, and thus helps to ensure optimum system functionality.

**Employing intelligent household technology to harness energy**
You need high-performance household technology to efficiently utilize captured solar energy and to transport it to the user. As an expert partner with longstanding experience, Angst + Pfister supports you with extensive know-how and high-quality products.

Our customers include (abridged)
Angst + Pfister – Your supply and solutions partner

The Angst + Pfister Group is a leading international technical manufacturer and service provider for high-end industrial components. As a supply and solutions partner for engineering plastics, sealing, fluid handling, drive, and antivibration technology as well as sensors, Angst + Pfister combines efficient logistics concept with comprehensive product application engineering services. Besides providing customer-specific parts, the Group offers a product range consisting of approximately 100,000 standard items.

Our core product divisions

- APSOplast® Engineering Plastics Technology
- APSOseal® Sealing Technology
- APSOfluid® Fluid Handling Technology
- APSOdrive® Drive Technology
- APSOvib® Antivibration Technology

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