

Application Note



Angst+Pfister Sensors and Power is a company with a long track record in life science, serving medical device manufacturers across the globe for many decades.

Dental equipment of multiple kinds is essential to assist the dentist in his efforts to properly check and treat conditions with the aim of ensuring oral health.

"Thanks to Angst+Pfister Sensors and Power, we were able to massively improve our process stability and repeatability"



Example vacuum system
(source: Tech West)



Example drill motor (source: Nobel Biocare)

What are the advantages of APSP pressure sensors for your application?

- High accuracy miniature pressure sensor AG2/ AG4
- Real-time monitoring of pressure/ vacuum at accuracy $\pm 0.5\%$ FS
- Backward gage - sensor resistant towards temporary humidity exposure (e.g. condensation)
- Manifold-mountable for easy integration in pneumatic block
- Individual range calibration for optimization of usable span



- Miniature pressure sensor PBM230
- Suitable for both gas and liquids (water, disinfection agents)
- Manifold mountable for non-intrusive integration in pneumatic/ hydraulic block



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How can the APSP drive solutions improve the long-term performance of dental equipment?

- Electrical drives with customized shafts/ gears/ encoders/ brakes
- Special connectors and wires (harness)
- Tailored winding (voltage/ speed)
- Customized bearings (IP class as requested)
- Robust construction for vibration exposure
- Minimal axial tolerance



How can you benefit from APSP medical power supplies/ DC-DC converters while increasing patient safety?

- Compact form factor for reduced space demand
- High efficiency and low no-load energy consumption
- Extremely low leakage current
- High EMC- class
- BF (body floating) and even CF (cardiac floating) insulation
- Specific safety approval
- Design-in engineering and certification support
- Flexible customization even for smaller quantities



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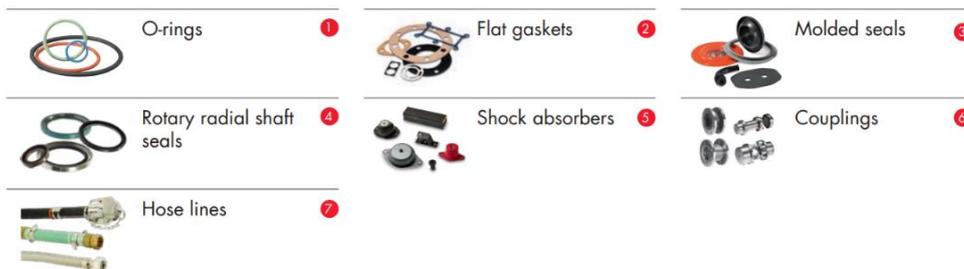
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What are the advantages of A+P elastomer components for pumps/ compressors?

- With our A+P specialists we realize the most suitable and efficient solutions for demanding Life Science applications in terms of sealing, fluid handling and antivibration
- Ensuring silent operation of pumps with the appropriate shock absorbers
- Comprehensive know-how in high-performance elastomers from choice of raw materials to final testing and serial production
- Broad chemical resistance over a wide range of aggressive liquids
- Multiple approvals and conformities



Everything from a single source!

Very fast and flexible engineering prototypes for customized solutions.

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