

SPECIAL SOLUTIONS FOR THE INDUSTRY FLEXIBLE ENGINEERING SOLUTIONS

CUSTOM ENGINEERED HOSE-FITTING COMBINATION

Fasteners which loosen due to vibration are a challenge in well-supported engine blocks. To keep engine blocks sealed and prevent leaks we offer different types of hose/fitting combinations. These custom engineered connections help the engine block to withstand extreme heat and vibration, while reducing cost, assembly and warranty issues.



CUSTOM ENGINEERED SHAPES

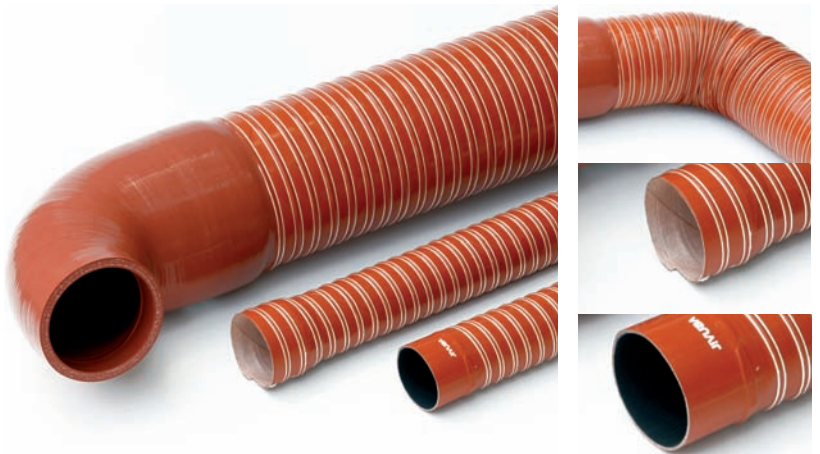


From one-piece projects to serial production we support manufacturers and engineers in developing and producing hoses which fulfill all of your system requirements. Our silicone shapes are engineered and manufactured according to the customer's needs, so that we deliver in accordance to drawing specifications or samples supplied by the customer. We produce hoses with a wide variety of constructions with different characteristics and mechanical properties so we can address virtually all your requirements.

CUSTOM ENGINEERED DUCTING

Custom engineered ducting is produced with layers of fiberglass coated with SILICONE or NEOPRENE with steel wire spiral inside the tube.

All of our custom engineered ductings maintain the following main characteristics: light-weight construction in combination with high mechanical strength, flexibility, temperature resistance, and comply with the latest safety properties (flame, smoke, and toxicity). A special construction compliant with the M1 fire (UNE. 23.727-90) and F1 (NF F16-101) fume classification is also available.



MAIN STANDARDS AND CERTIFICATIONS OF OUR PRODUCTS

- Fire behaviour according to UNE EN 23.727-90
- Burning behaviour I and M rating, and smoke and toxicity F rating according to NF F 16 101 with smoke density test according to NF X 10-702 and toxicity test according to NF X 70-100
- Burning behaviour of material according to DIN 54837:2007, smoke development and toxicity according to DIN EN ISO 5659-2:2007 and DIN 5510-2:2009
- Flame propagation according to UL94
- Specific Optical Density of Smoke Generated by Solid Materials according to ASTM E662
- Surface Flammability of Materials according to ASTM E162
- Toxic gas generation from materials in combustion according to BSS 7239
- SAE J20 Class A for cooling systems
- SAE J2006 style R1-R3 for Marine Exhaust hose
- Vertical flammability test according to FAR/CS 25.853 appendix F, Part I (a)(1)(ii)
- Horizontal flammability test according to FAR/CS 25.853 Appendix F, Part I (a)(1)(iv)
- Optical density test according to AIRBUS DIRECTIVE ABD0031 and AITM 2.0007 B
- Smoke and toxicity test according to AIRBUS DIRECTIVE ABD0031 and AITM 3.0005
- Any other specific Certification according to the customer requirements



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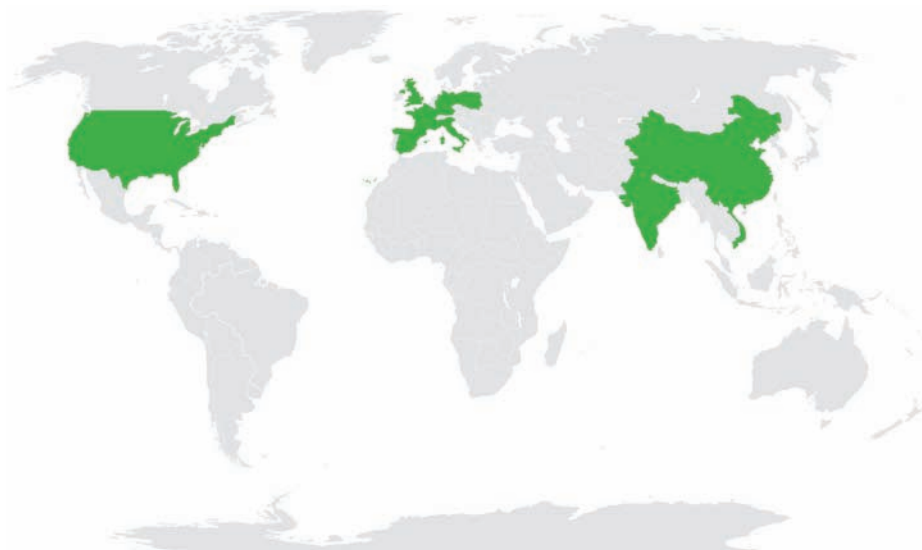
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IMPORTANT:

It is the user's responsibility to ensure the suitability and safety of the VENAIR products for all intended uses. All the tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of the hoses in any particular application.

Limited Warranty: For a period of 6 months from the date of sale, VENAIR warrants this product to be free from defects in materials and workmanship. Our only obligation will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risk, if any, including the risk of injury, loss or damage, direct or consequential, arising out of the use, misuse, or inability to use, this product. THIS WARRANTY IS IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. No deviation is authorized. VENAIR assumes no obligations or liability for any advice furnished by it, or for results obtained with respect to those products. All such advice is given and accepted at the buyer's risk.

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