Hose Fittings Available in Five Materials

AdvantaPure’s expanded offering of fittings for sanitary hose now includes options in stainless steel, silicone, TPE, Hytrel®, and polypropylene. The fittings are designed to mate with hose made from silicone, PTFE, FEP, PVC, EPDM, TPR, and TPE such as AdvantaFlex®, are furnished attached to the hose, and are characterized by:

- The 316L stainless steel fittings offer details such as a 15 Ra or better finish for smooth, non-contaminating flows; eight-sided designs for easier tightening in restrictive installations; radiused edges; and availability in sanitary, pipe thread and cam and groove styles. Most are 3-A approved and they are sterilizable, documented lot traceable (with identification markings on each fitting) and documented for quality control.
- Molded silicone fittings are supplied attached directly to silicone tubing or hose, while TPE fittings, made from AdvantaPure’s AdvantaFlex material, are provided directly attached to Advantaflex tubing. The two choices are both well-suited for single-use applications involving aseptic transfer, sterile processing, and other critical applications in the pharmaceutical, biomedical, and high purity industries. Both assemblies reduce installation time, improve cleanliness, and eliminate entrapment issues and leaks associated with barb-type fittings. They provide a smooth inner surface with a seamless transition and consistent interior dimensions for maximum flow rates. Mini and standard Tri-Clamp® styles are available. The materials differ in that silicone offers a wider temperature range (from -100° F to 400° F, -73° C to 204° C), while AdvantaFlex is sterile, heat sealable and weldable, contains no silicone oils, and is not as costly.
- The over-molded Tri-Clamp ends for PVC, TPE, and TPR tubing are injection molded from USP Class VI Hytrel or polypropylene. They are offered in mini and standard Tri-Clamp styles like silicone and AdvantaFlex. Hytrel and polypropylene cost less than their silicone counterparts, making them an attractive alternative for pharmaceutical, medical, surgical, food, beverage

and dairy applications. They are an excellent component for single-use systems and are easily sterilized.

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