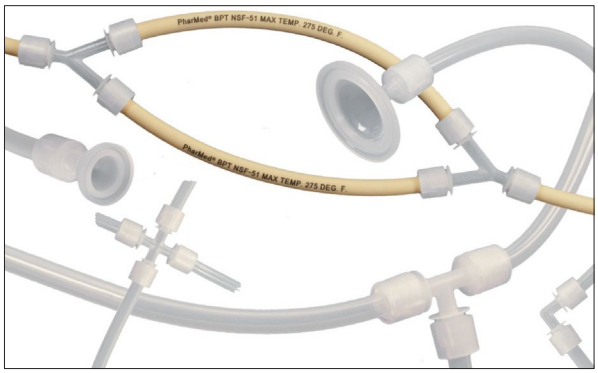
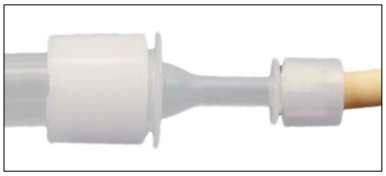
Adapter, coupling and hose accessory systems for pharmaceuticals and biotechnology (1)



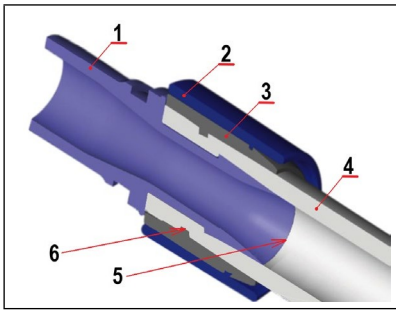
Pure-Fit® SIB® *(Smooth Inner **Bore**)*

Plastic tips and connectors for advanced biotechnology applications

Material: polypropylene (PP) or PVDF
Shore (A) hardness: 85 (polypropylene - PP) 78 (PVDF)
Operating temperature: up to +93°C (PP) / +135°C (PVDF) **Operating pressure:** 17 bar (20°C) / 7 bar (93°C) **Sterilisation:** radiation (PP) radiation and autoclaving (PVDF)

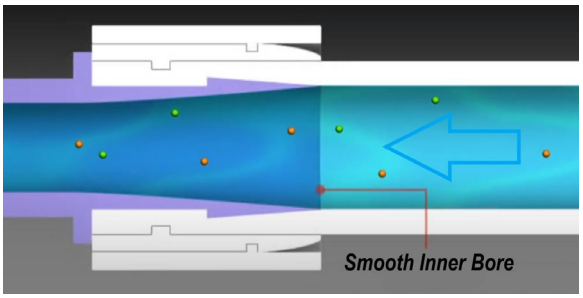


Pure-Fit tips and fittings® are designed for Sani-Tech biopharmaceutical hoses® STHT® , C-Flex® and PharMed® BPT. They can be used for other hoses of similar material (silicone, thermoplastic elastomer). The tips are made of high-quality and pure plastic: polypropylene (PP) or polyvinylidene fluoride (PVDF) meeting USP hygienic requirements.
<88> Class VI and/or USP <87> and ISO 10993-5, BPA-free (Bisphenol A) and substances of animal origin. Hygienic properties confirmed by the Saint-Gobain validation guide. Pure-Fit end fittings and couplings® should be mounted to the hose using special holders (BarbLock system®). Overlapping the two parts of the holder compresses the hose around its entire circumference (360°) ensuring **a completely leak-free connection**, while providing **a smooth, stepless transition** between the inner surface of the hose and the inside of the end tail (*Smooth Inner Bore*). This eliminates disturbances and dead spaces - areas of stagnant flow that can harbour bacteria. The use of Pure-Fit tips® mounted with Pure-Fit holders® / Barblock® provides significantly improved tightness and hygienic properties of the connection compared to clamp mounting. Mounting of Pure-Fit holders® on the hose is carried out with manual or pneumatic mounting tools of the BarbLock® system.



Pure-Fit tips® SIB® with Pure-Fit holders® (BarbLock®):

1. Pure-Fit tip® SIB® (example)
2. Pure-Fit frame® - outer sleeve;
3. Pure-Fit holder® - inner sleeve
4. Flexible hose
5. *Smooth Inner Bore*
6. Compression of the hose around its entire circumference (360°)



Pure-Fit frames :®

Pure-Fit holders® of the BarbLock system® should be matched to the inner diameter and outer diameter of the hose. Pure-Fit holders® made of polypropylene (PP) or PVDF in natural translucent colour are available for the most common diameters and thicknesses of biopharmaceutical hoses, packaged in the manufacturer's certified clean zone in packs of 250 pcs. (for ID 3/4"- 25 pcs.). For other hose sizes and for smaller quantities, it is possible to use standard **blue** BarbLock holders® , packaged in Tubes International's clean zone. Separate tools (manual or pneumatic) are available for the assembly of individual holder sizes - contact Tubes International.

description / drawing	index (polypropylene)	index (PVDF)	Hose inside diameter (ID)		Hose outside diameter (OD)	
			[mm].	[inch].	[mm].	[inch].
Frame 	VE-PF135-062-PPAF-AL	VE-PF135-062-PVDF-AL	1,6	0,062 (1/16")	4,8	3/16"
	VE-PF135-125-PPAF-AL	VE-PF135-125-PVDF-AL	3,2	0,125 (1/8")	6,4	1/4"
	VE-PF135-187-PPAF-AL	VE-PF135-187-PVDF-AL	4,8	0,187 (3/16")	7,9	5/16"
	VE-PF135-250-PPAF	VE-PF135-250-PVDF	6,4	0,250 (1/4")	9,5	3/8"
	VE-PF135-312-PPAF-AL	VE-PF135-312-PVDF-AL	7,9	0,312 (5/16")	14,3	9/16"
	VE-PF135-375-PPAF	VE-PF135-375-PVDF	9,5	0,375 (3/8")	15,9	5/8"
	VE-PF135-500-PPAF	VE-PF135-500-PVDF	12,7	0,500 (1/2")	19,1	3/4"
	VE-PF135-750-PPAF-AL	VE-PF135-750-PVDF-AL	19,1	0,750 (3/4")	31,8	1.1/4"

Note: Indexes with end ...-AL - one-piece version: inner and outer sleeves integrated.