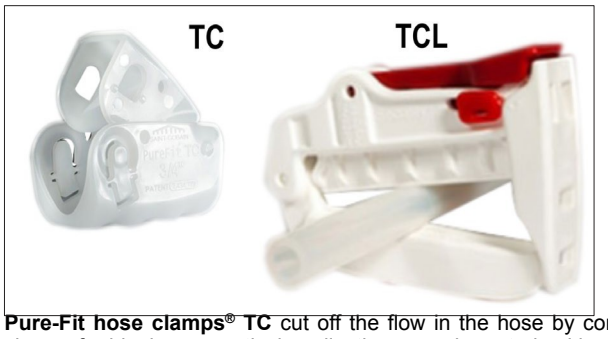
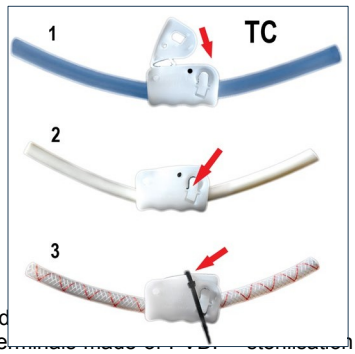
Adapter, coupling and hose accessory systems for pharmaceuticals and biotechnology (4)



Pure-Fit® Tube Clamps TC / TCL

Flow shut-off hose clamps for biopharmaceutical hoses

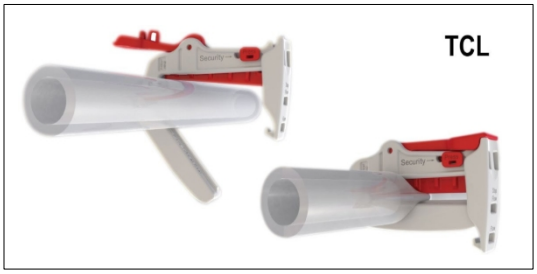
Material: polypropylene (PP) or PVDF
Operating temperature: up to +93°C (PP) / +130°C (PVDF)
Sterilisation: radiation (PP)
radiation and autoclaving (PVDF)



Pure-Fit hose clamps® TC cut off the flow in the hose by compressing the hose walls. Pure- Fit® TC clamps for biopharmaceutical applications are characterised by: an external surface without sharp edges, eliminating the possibility of damaging the hose; a pressure locking system (fig.1) to prevent accidental release; a side release mechanism (fig.2) for safe installation and one-handed operation; and a hole for permanent locking (fig.3). The innovative design of the clamp allows the flow to be completely blocked, yet the clamp can be both threaded onto the hose and applied to the hose installed in the system. Pure-Fit® TC clamps are available in two sizes suitable for hoses with external diameters from 3.2 to 19.1 mm. **The large Pure-Fit hose clamps® TCL** have the same functional features, but are designed for large-diameter, thicker-wall, standard hoses, as well as braid-reinforced or multilayer hoses. In addition to completely blocking the flow, they can be used in the intermediate setting of suitably reduced flow. The large Pure-Fit clamps® TCL are available in two sizes suitable for hoses with an external diameter of 19.1 to 50.8 mm.

Pure-Fit terminals® TC and TCL are made of materials complying with USP<88> Class VI requirements, and USP <87>, and/or ISO 10993-5. Terminals made of polypropylene (PP) - gamma radiation sterilisation. Te[illegible] by gamma radiation or autoclaving.

index	material	Hose outside diameter (OD)		minimum, thickness of hose wall		packaging [pcs.].
		[inch].	[mm].	[inch].	[mm].	
Pure-Fit® TC						
VE-PF-TC-375	PP	1/8"÷ 3/8"	3,2 ÷ 9,5	0,03	0,76	25
VE-PF-TC-375-PVDF	PVDF					
VE-PF-TC-750	PP	3/8"÷ 3/4"	9,5 ÷ 19,1	0,06	1,52	25
VE-PF-TC-750-PVDF	PVDF					
Pure-Fit® TCL						
VE-PF-TCL-150	PVDF	3/4"÷ 2"	19,1 ÷ 50,8	1/16"÷ 1/8"	1,6 ÷ 3,2	25
VE-PF-TCL-250	PVDF			1/8"÷ 1/4"	3,2 ÷ 6,4	25





Pure-Fit® Tru Valve

Clamping valve for biopharmaceutical hoses

Material: polyamide (nylon) reinforced borosilicate
Outside diameter of hoses: 1/8"÷ 5/8" (3.2÷ 15.9 mm)
Sterilisation: radiation and autoclave

Innovative hose clamp valve with mounting option on already installed hoses. Allows flow adjustment with a calibrated scale on both sides and complete flow shut-off. Lightweight design does not weigh down installed hoses. Simple assembly and operation. The Pure-Fit® Tru Valve is designed not only to measure fluid flow, but also as an effective and safe method of closing and disconnecting the hose system during a steam sterilisation (SIP) cycle.



Example flow characteristics:

ID hose 3/16" (4.8 mm)	closed					open	open
setting on the scale	3	2,75	2,5	2,25	2	1,75	1,5
flow [ml/min]	0	33	333	800	1000	1333	1333
ID 1/4" (6.4 mm) hose	closed					open	open
setting on the scale	3	2,5	2,25	2	1,75	1,5	1,25
flow [ml/min]	0	42	893	1429	1515	1515	1515
ID hose 3/8" (9.5 mm)	closed					open	open
setting on the scale	2,5	2,25	2	1,75	1,5	1,25	1
flow [ml/min]	0	57	625	1613	2000	3030	3030