

Cynergy[®] PVDF Tube Adapter Assembly Procedures

SPECIFICATIONS

The versatile Cynergy[®] PVDF tube adapter enables you to connect any standard sanitary clamp fitting to silicone tubing.

Maximum pressure	41 kPa (6 psig) at room temperature
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Maximum temperature	Room temperature
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Note: The tubing dictates these product specifications.

SILICONE TUBING CONNECTION

Tubing Preparation

NOTE: Reference Table 1 for tube size and nut torque information. If using PFA tubing, refer to the [Cynergy System Technical Guide](#) for PFA tubing flaring instructions.

1. Cut the silicone tubing end squarely (0.070" maximum squareness tolerance) using an Entegris tube cutter (part number 213-14, 213-16 or 213-30).
2. Insert the cut end of the tubing through the non-threaded end of the Flaretek[®] nut.

Silicone Tubing Assembly Instructions

1. Push the silicone tubing end onto the nose of the Cynergy PVDF tube adapter until the end of the tube contacts the shoulder of the adapter body (see Figure 1).
2. Tighten the Flaretek nut onto the fitting body until handtight.

Cynergy PVDF Tube Adapter Assembly

1. Clean the Cynergy clamp fitting face with isopropyl alcohol (IPA) to remove surface contaminants and particles.
2. Select the recommended sanitary gasket and clamp specified in Table 1.
3. Place the appropriate gasket between the two sanitary flanges (see Figure 1).

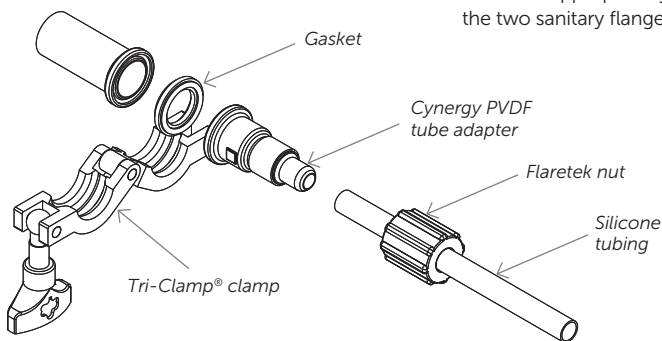


Figure 1.

- While holding the flanges together, place the clamp around them and secure the clamp. Tighten the clamp to the torque specification of 1.7 N•m (15 in•lbs).

NOTE: Laboratory testing of Cynergy clamp fittings shows performance reliability is dependent on the type of clamp and gasket used. Entegris strongly recommends the use of Tri-Clamp two-piece clamps for ½" and ¾" sizes. Entegris also recommends the use of sanitary gaskets by Tri-Clover® with Cynergy clamp fittings.

ORDERING INFORMATION

PART NUMBER	CYNERGY CLAMP CONNECTION SIZE	CYNERGY PVDF TUBE ADAPTER SIZE	SILICONE TUBING OD	SILICONE TUBING ID	SILICONE TUBING WALL	TRI-CLOVER EPDM GASKET PART NUMBER	TRI-CLAMP CLAMP PART NUMBER	MINIMUM FLARETEK NUT TORQUE
SA8-4DFN-1	½"	¼"	0.250"	0.125"	0.062"	42MP-E-1/2	13MHHS-3/4-S	0.6 N•m (5 in•lbs)
SA8-6DFN-1	½"	⅜"	0.375"	0.250"	0.062"	42MP-E-1/2	13MHHS-3/4-S	0.9 N•m (8 in•lbs)
SA8-8DFN-1	½"	½"	0.500"	0.375"	0.062"	42MP-E-1/2	13MHHS-3/4-S	1.2 N•m (11 in•lbs)
SA12-4DFN-1	¾"	¼"	0.250"	0.125"	0.062"	42MP-E-3/4	13MHHS-3/4-S	0.6 N•m (5 in•lbs)
SA12-6DFN-1	¾"	⅜"	0.375"	0.250"	0.062"	42MP-E-3/4	13MHHS-3/4-S	0.9 N•m (8 in•lbs)
SA12-8DFN-1	¾"	½"	0.500"	0.375"	0.062"	42MP-E-3/4	13MHHS-3/4-S	1.2 N•m (11 in•lbs)
SA12-12DFN-1	¾"	¾"	0.750"	0.625"	0.062"	42MP-E-3/4	13MHHS-3/4-S	1.6 N•m (14 in•lbs)

Note: Adapters are not compatible with thin walled (0.032") or reinforced silicone tubing.

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the [Contact Us](#) link to find the customer service center nearest you.

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