# Cynergy<sup>®</sup> Clamp-to-PureBond<sup>®</sup> Adapter Assembly Procedures

## **SPECIFICATIONS**

Cyclic steam	359 kPa (52 psig) saturated		
capability	steam at 149°C (300°F)		
	414 kPa (60 psig) at 2°C (35°F)		
conditions	448 kPa (65 psig) at 90°C (194°F)		
Maximum	689 kPa (100 psig) at		
operating	ambient temperature		

The versatile Cynergy® clamp adapter enables you to connect any standard sanitary clamp fitting to butt-weld, Schedule 40 PFA PureBond® pipe permanently connecting your sanitary system to a Teflon® PFA system.

## PUREBOND FUSION PROCEDURES

The PureBond fusion process should only be performed by an individual who has been trained in the patented PureBond weld process. Several PureBond weld tools are available for use in the PureBond process. Please consult your local Entegris representative for details on PureBond weld tools and procedures.

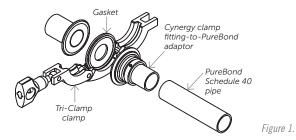
## CYNERGY CLAMP Connection Assembly

- 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).
- 4. While holding the flanges together, place the clamp around them and secure the clamp. Tighten the clamp to the torque specification shown in Table 1.

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® three-piece clamps for 1", 1½", and 2" sizes, and Tri-Clamp twopiece clamps for ¼", ½", and ¾" sizes. Entegris also recommends the use of sanitary gaskets by Tri-Clover® or Newman with Entegris' Cynergy clamp fittings.

The use of any PTFE material gasket will significantly reduce the pressure performance ratings of Cynergy connections. Please contact your Entegris distributor or Entegris, Inc. for gasket material information.





#### Table 1.

Part number	Cynergy clamp connection size	PureBond adapter connection size	Tri-Clover EPDM gasket part number	Newman EPDM gasket part number	Tri-Clamp clamp part number	Tri-Clamp clamp torque N∙m (in∙lbs)
WSA4-4P	1/4"	1/4"	_	0-42MP-E-1/4*	13MHHS-¾-S	1.7 (15)
WSA8-4P	1/2"	1/4"	42MP-E-1/2	_	13MHHS-¾-S	1.7 (15)
WSA8-8P	1/2"	1/2"	42MP-E-1/2	_	13MHHS-¾-S	1.7 (15)
WSA12-12P	3/4"	3/4"	42MP-E-3/4	_	13MHHS-¾-S	1.7 (15)
WSA16-12P	1"	3/4"	40MP-E-1	_	13MHHS-1½-S	2.8 (25)
WSA24-16P	11/2"	1"	40MP-E-11/2	_	13MHHS-1½-S	2.8 (25)
WSA32-32P	2"	2"	40MP-E-2	_	13MHHS-2-S	2.8 (25)

\*Entegris stocks this 1/4" gasket and it can be purchased using part number 1333-022.

#### FOR MORE INFORMATION

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Corporate Headquarters 129 Concord Road Billerica, MA 01821 USA Customer Service

 Tel
 +1
 952
 556
 4181

 Fax
 +1
 952
 556
 8022

 Toll Free
 800
 394
 4083

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