

# ErgoNOW™ Bottle System Key-Coded Connector Upgrade Kit

*Accessory kit used to upgrade the SmartProbe® bottle system key-coded connector to an ErgoNOW connector*

This kit is used to upgrade an existing SmartProbe® connector to an ErgoNOW™ connector. The ErgoNOW connector provides additional benefits compared to the SmartProbe connector. The ergonomically designed handle disengages the connector locks and releases the connector from the bottle system in a single, smooth motion, improving the ease of use for operators. In addition, the connector's keyed retainer assists in aligning the sensor to the sensor target on the SmartCap™ closure. ErgoNOW connectors are designed for use with the NOWPak® liner-based bottle system or PDMPak® bottle system for pressurized applications.

Note: When upgrading a SmartProbe connector to an ErgoNOW connector, both the NA-117 upgrade kit of choice and an ErgoNOW replacement keyed retainer must be ordered. The ErgoNOW PA-12-XXYYZZ (Delrin), PA-13-XXYYZZ (Noryl), PA-14-XXYYZZ (Ultem 1000), or PA-15-XXYYZZ (PEEK) keyed retainer should be ordered to match the key code of the original SmartProbe connector or intended chemistry. SmartProbe and ErgoNOW keyed retainers are not interchangeable.

## APPLICATIONS

- PL-type ErgoNOW connectors provide indirect pressure assist or pump delivery of chemical using the NOWPak liner-based bottle system.
- PD-type ErgoNOW connectors provide indirect pressure dispense using the PDMPak bottle system.



*ErgoNOW connector safely and securely provides pressure assist or pump dispense*

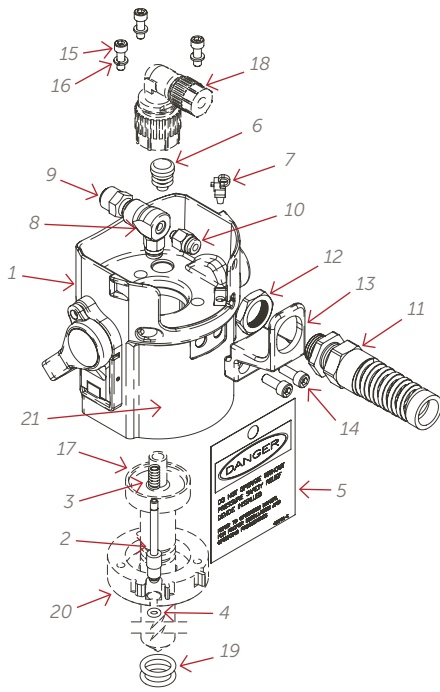
## FEATURES & BENEFITS

<b>Key-coded system</b>	Helps prevent dispensing the wrong material
<b>Snap on/easy release design</b>	Provides easy installation and removal of the connector
<b>Self-centering keyed retainer</b>	Ensures perfect alignment of the connector with the SmartCap closure
<b>LED</b>	Provides visual indication that the connector is installed correctly (for connectors with the sensor option)
<b>Standard pressure relief valve</b>	Provides safer system operation
<b>Safety interlock mechanism</b>	Prevents connector from accidental release during pressure dispense operation
<b>Sealed delivery system</b>	Ensures safe chemical delivery and helps prevent external contamination
<b>Upgrade kit</b>	Allows for re-use of existing products, saving money and reducing waste

## SPECIFICATIONS

<b>Materials of construction</b>	Connector body	Polypropylene	
	Gas inlet fitting	Stainless steel	
	Nozzle	Stainless steel	
	Nozzle O-ring	EPDM	
	Spring	Stainless steel	
	Screws	Stainless steel	
	Washers	Stainless steel	
	Cable tie down	LDPE	
	Danger label	Polycarbonate	
	Plug	LDPE	
	Strain relief	Nozzle	Nylon
Bracket		Polypropylene	
Screws		Stainless steel	
<b>Manufacturing standards</b>	Fabricated and tested in a Class 5 Cleanroom as per International Standard ISO 14644-1:* Cleanrooms and associated controlled environments – Part 1: Classification of air cleanliness.		
<b>Upgrade limitations and compatibility</b>	<p>SmartProbe connectors with gas inlet fitting option P cannot be upgraded due to interference between the tubing and the connector handle.</p> <p>SmartProbe connectors with liquid-out fitting options F and H (Flaretek® fitting) require ErgoNOW connector upgrade strain relief option Z (without strain relief) due to height alignment issues between the fitting and strain relief.</p>		
<b>Packaging</b>	Each NA-117-XX upgrade kit contains the ErgoNOW connector and most supporting hardware to upgrade an existing SmartProbe connector to an ErgoNOW connector. Refer to important notes on page 3 for supporting hardware guidance. Components are bagged in groups, with the whole kit double bagged and heat sealed. Shipping is performed in a corrugated container with a PE bag acting as the liner.		
<b>Labeling</b>	Each shipping carton is labeled with the part number, batch number, and quantity of upgrade kits.		
<b>Shipping information</b>	Box quantity	1	
	Box dimensions	203 mm L x 178 mm W x 178 mm H (8" L x 7" W x 7" H)	

\*ISO standard certification is kept up to date as necessary to remain current and effective to be able to demonstrate compliance with up-to-date ISO requirements.



### Common Components

Item	Qty	Item description
1	1	Connector body assembly, ErgoNOW pump dispense with pressure assist
2	1	Nozzle, shouldered
3	1	Spring, compression
4	1	O-ring, nozzle, EPDM, 70 durometer
5	1	Label, "DANGER"
6	1	Plug, sensor port, LDPE
7	1	Cable tie down, push mount
8	1	Tee fitting, 1/8" NPT x #10-32 UNF x 5/32" OD QC
9	1	Valve, pressure relief, stainless steel, 7 psi
10	1	Gas inlet fitting*
11	1	Body, strain, relief**
12	1	Nut, strain, relief**
13	1	Bracket, strain, relief**
14	2	Screw, socket head cap, #10-32 x 0.50**
15	3	Screw, socket head cap, #8-32 x 0.50
16	3	Washer, split lock, #8
17	1	Probe***
18	1	Liquid out fitting***
19	2	Seal, O-ring***
20	1	Retainer, keyed, shouldered, nozzle, 3-screw****
21	1	Tie, LDPE, yellow, 0.15" LG

**Important notes:**

\* Refer to gas inlet fitting tabulation on page 5.

\*\* Items 11 – 14 are only included with the A or B strain relief options (see page 6, Ordering Information).

\*\*\* Items 17 – 19 are not included in the upgrade kit. These components are to be reused from the existing SmartProbe connector.

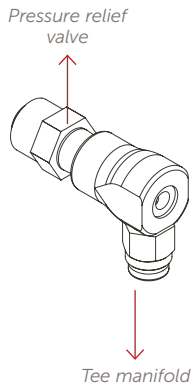
\*\*\*\* Item 20 is not included in the upgrade kit. When upgrading a SmartProbe connector to an ErgoNOW connector, both the NA-117 upgrade kit of choice and an ErgoNOW replacement keyed retainer must be ordered. The ErgoNOW PA-12-XXYYZZ (Delrin), PA-13-XXYYZZ (Noryl), or PA-14-XXYYZZ (Ultem 1000) keyed retainer should be ordered to match the key code of the original SmartProbe connector or intended chemistry. SmartProbe and ErgoNOW keyed retainers are not interchangeable.

## Tube Connections

	OPTIONS	DESCRIPTION
<b>Gas inlet</b>	A	$\frac{5}{32}$ " tube Quick Connect and gas fitting kit (see page 5 for additional gas fitting kit information)
	B	$\frac{1}{4}$ " tube Quick Connect (no gas fitting kit)
	C	$\frac{1}{8}$ " tube Quick Connect (no gas fitting kit)
	D	$\frac{1}{4}$ " tube Swagelok® fitting (no gas fitting kit)
	E	$\frac{1}{8}$ " FNPT thread with Quick Connect stem (no gas fitting kit)
	F	$\frac{1}{8}$ " FNPT thread (no Quick Connect stem, no gas fitting kit)
	Z	No gas inlet fitting (only the tee fitting with PRV installed)

## Gas Inlet Fitting Options

### TEE MANIFOLD WITH PRESSURE RELIEF VALVE (ALL GAS FITTING TYPES)

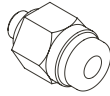


### GAS FITTING OPTION\*

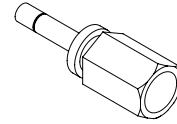
### GAS FITTING

### ADDITIONAL PARTS INCLUDED – GAS FITTING KIT

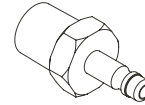
A



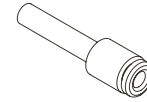
5/32" OD tube Quick Connect



Adapter fitting, 5/32" stem to 1/8" female NPT

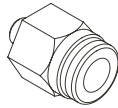


1/8" New-Machine Quick Connect stem  
(part number CA-00MP NPT 1/8")



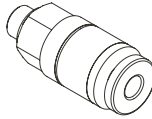
Reducer for 1/8" tube

B



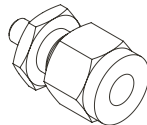
1/4" OD tube Quick Connect

C



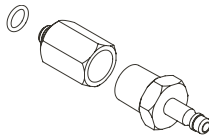
1/8" OD tube Quick Connect

D



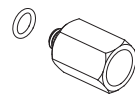
1/4" OD tube, Swagelok

E



1/8" OD FNPT thread with  
Quick Connect stem

F



1/8" OD FNPT thread

Z

No gas inlet fitting (only the  
tee fitting with PRV installed)

\*Reference ordering information on page 7.

## DIMENSIONS

For detailed information regarding ErgoNOW connector dimensions and other information, please reference the ErgoNOW Dispense Connector data sheet.

## ORDERING INFORMATION

ErgoNOW Connector Basic Upgrade Kit: part number

*(The basic upgrade kit does not contain gas inlet or strain relief components)*

NA - 117

..... ErgoNOW connector basic upgrade – no gas inlet or strain relief

ErgoNOW Connector Upgrade Kit with Gas Inlet and Strain Relief: part number

NA - 117 -

..... **Strain relief**

- A = With strain relief for 6.35 mm (1/4") tubing
- B = With strain relief for 9.53 mm (3/8") tubing
- Z = Without strain relief

..... **Gas inlet options**

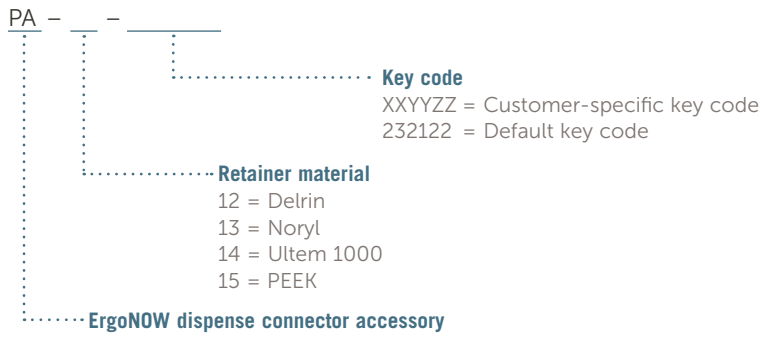
- A = 5/32" tube Quick Connect plus gas fitting kit
- B = 1/4" tube Quick Connect (no gas fitting kit)
- C = 1/8" tube Quick Connect (no gas fitting kit)
- D = 1/4" tube Swagelok fitting (no gas fitting kit)
- E = 1/8" NPT with Quick Connect stem (no gas fitting kit)
- F = 1/8" OD FNPT thread (no Quick Connect stem, no gas fitting kit)







..... ErgoNOW connector upgrade

*Note: When upgrading a SmartProbe connector to an ErgoNOW connector, both the NA-117 upgrade kit of choice and an ErgoNOW replacement Keyed retainer must be ordered. The ErgoNOW PA-12-XXYYZZ (Delrin), PA-13-XXYYZZ (Noryl), PA-14-XXYYZZ (Ultem 1000), or PA-15-XXYYZZ (PEEK) keyed retainer should be ordered to match the key code of the original SmartProbe connector or intended chemistry. SmartProbe and ErgoNOW keyed retainers are not interchangeable.*

## ErgoNOW Dispense Connector Keyed Retainer Only: part number

(A replacement keyed retainer must be purchased in addition to the ErgoNOW upgrade kit when upgrading a SmartProbe connector to the ErgoNOW connector.)



PART NUMBER	PA-12-XXYYZZ*	PA-12-232122**	LKR-AA-XXYYZZ* (FOR PD-TYPE CONNECTOR)	PA-13-XXYYZZ* AND PA-13-232122**	PA-14-XXYYZZ* AND PA-14-232122**	PA-15-XXYYZZ* AND PA-15-232122**
<b>Materials of Construction</b>	Delrin	Delrin	Delrin	Noryl	Ultem 1000	PEEK
<b>Contents</b>	Retainer only	Retainer only	Retainer, stainless steel lock washers, EPDM nozzle O-ring, 1/4" retaining clip	Retainer only	Retainer only	Retainer only
<b>Retainer color</b>	Black	Red	Black	Black	Amber	Gray
<b>Retainer image</b>						

\* XXYZZ represents the customer-specific key code  
 \*\* 232122 is the default key code

### FOR MORE INFORMATION

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

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