

SC-XX-YY-ZZ, SCD-XX-YY-ZZ, and SCG-XX-YY-ZZ SmartCap™ Closures

Key-coded breakseal style closures for misconnect prevention

SmartCap™ closures are used together with the NOWPak® liner-based bottle system and PDMPak® bottle system for pressurized applications to seal the bottles after they are filled with chemical. The chemical-specific mechanical key-code mates with the ErgoNOW™ connector to ensure the correct chemical is connected to the correct dispense system.

APPLICATIONS

- Designed for applications where multiple chemicals are used

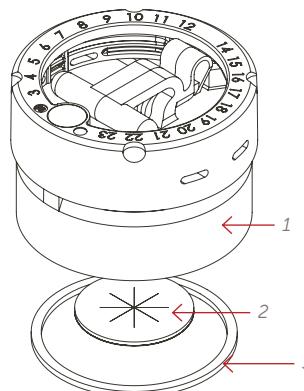
FEATURES & BENEFITS

Mechanical key code	SmartCap closure mates only to the corresponding ErgoNOW key-coded connector to prevent dispensing the wrong material
Unique customer-specific key code	Key codes uniquely identify customers' critical materials
Breakseal closure design	Minimizes exposure of critical materials to the environment during installation of the dispense connector

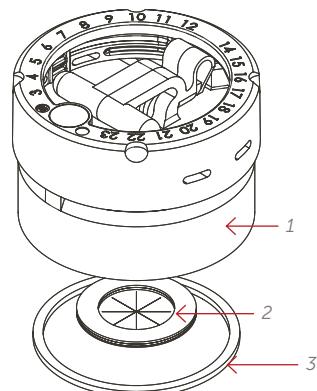


SmartCap closure

DIMENSIONS

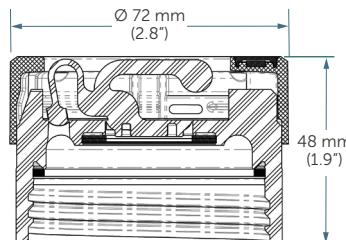


SC-type closure



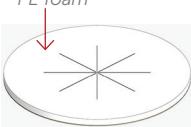
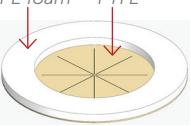
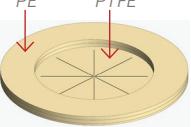
SCD-and SCG-type closures

Item	Description	Quantity
1	Key-coded SmartCap closure	1
2	Breakseal, SC-, SCD-, and SCG- types	1
3	Gasket	1



Closure body dimensions for all SmartCap types

SPECIFICATIONS

Materials of construction	Closure body	LLDPE	
	Breakseal Options	Wetted Surface	Nonwetted Surface
SC-XX-YY-ZZ SmartCap			
		PTFE surface	Laminate construction
SCD-XX-YY-ZZ SmartCap			
		PTFE surface	Donut style, laminate construction
SCG-XX-YY-ZZ SmartCap			
		PTFE surface	Donut style, laminate construction
	Gasket	PE foam	
	Key-coded ring	PP	
	Target	Steel	
	Target cap	PP black	
Weight	60 g (0.13 lb)		
Closure thread	Modified 63 mm buttress thread, 4.24 mm (0.167") pitch		
Application torque	$9.3 \pm 0.3 \text{ N}\cdot\text{m}$ (80 – 85 in·lb)		
Manufacturing standards	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.		
Cleanliness	Closure assembly to be free from lubricants and other extraneous foreign materials consistent with Entegris' processes and procedures.		
Packaging	Closure assemblies are bulk packaged in heat-sealed PE bags, then placed in a corrugated shipping carton. Each heat-sealed PE bag contains 25 SmartCap closures. Each shipping carton contains 50 SmartCap closures.		
Labeling	Each SmartCap closure assembly may be labeled with a customer-specified label format. This label format may include customer-specified information such as: part number, bar code, process chemical, or other customer-specified text. Each heat-sealed bag of 25 SmartCap closures is labeled with the part number, batch number, bag quantity, and month and year of manufacture. Each corrugated shipping carton is labeled with the part number, batch number, box quantity, and date of manufacture.		
Shipping information	Box quantity	50 (two bags of 25)	
	Box dimensions	476 mm L x 295 mm W x 197 mm H (18.7" L x 11.6" W x 7.8" 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.

ORDERING INFORMATION

SmartCap closure with donut breakseal: part number

- XX - YY - ZZ	Key-code
Closure	Contact Entegris to obtain customer specific key-code
SC = SC-type breakseal	
SCD = SCD-type breakseal	
SCG = SCG-type breakseal	

SmartCap Closure Accessories

Part number	Description
NA-47	Tear tab removal tool
NA-47-SS	Tear tab removal tool, stainless steel
NA-33	Torque wrench, 3/8", 0 - 150 lbf•in with 3/8" to 1/2" adapter
NA-51-A-XXYYZZ	Torque tool for SmartCap closure with keyed insert. Contains NA-51 torque tool body, and NA-51-XXYYZZ keyed insert. NA-51 and NA-51-XXYYZZ are also available for purchase separately.
NA-42	Torque tool adapter for closure
NA-65-100	Plug for closure disposal (quantity of 100)
NA-46-250	Shipping ring for NC-W1, NC-W2, and SmartCap closures (quantity of 250)
NA-11-01-1	UN rated shipping box, for one 1-liter NOWPak bottle
NA-11-01-6	UN rated shipping box, for six 1-liter NOWPak bottles

Part number	Description
NA-11-02-1	UN rated shipping box, for one 2.5-liter NOWPak bottle
NA-11-04-1	UN rated shipping box, for one 4-liter NOWPak bottle
NA-11-04-4	UN rated shipping box, for four 4-liter NOWPak bottles
NA-11-05-1	UN rated shipping box, for one 10-liter NOWPak bottle
NA-11-05-2	UN rated shipping box, for two 10-liter NOWPak bottles
NA-74-01-6	Japanese, UN rated shipping box, for six 1-liter NOWPak bottles
NA-74-04-1	Japanese, UN rated shipping box, for one 4-liter NOWPak bottle
NA-74-04-4	Japanese, UN rated shipping box, for four 4-liter NOWPak bottles
NA-74-05-1	Japanese, UN rated shipping box, for one 10-liter NOWPak bottle
NA-74-05-2	Japanese, UN rated shipping box, for two 10-liter NOWPak bottles

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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