NOTIFICATION ON UPCOMING DESIGN CHANGE –
CRYO.S™ WITH EXTERNAL THREAD

For reasons of automation compatibility, the screw cap of all Cryo.s™ and Cryo.s™ with Barcode/Datamatrix with **external thread** will undergo a design change in the future. In this document, please find the complete information about this upcoming design change to inform your customers and understand what needs to be done in order to assure that customers can use the new design in their established workflows.

1. Design change

The design change of the screw cap of externally threaded Cryo.s™ is depicted in figure 1. It affects the inner portion of the upper part of the cap: While the new screw cap version features an internal contour for interaction with bits of automated decappers (figure 1A), the current version is cylindrical and only limitedly compatible with automated decapping systems (figure 1B). The outer cap geometry stays unchanged.
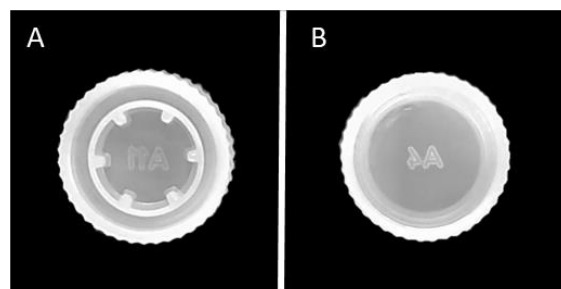

Figure 1: Screw cap top view. New version in A. Current/old version in B.

2. Affected items and timeline

2.1. Cryo.s™ with external thread – Catalogue products

The items listed in table 1 and exemplarily depicted in figure 2 will change in design **while part numbers will not change.** Therefore, lot-number information (provided later during the year) must be used to understand if a certain batch of product follows old or new design. During the transition period product stock will be kept as lean as possible to guarantee product availability on one handside and quick transition to new design on the other handside.
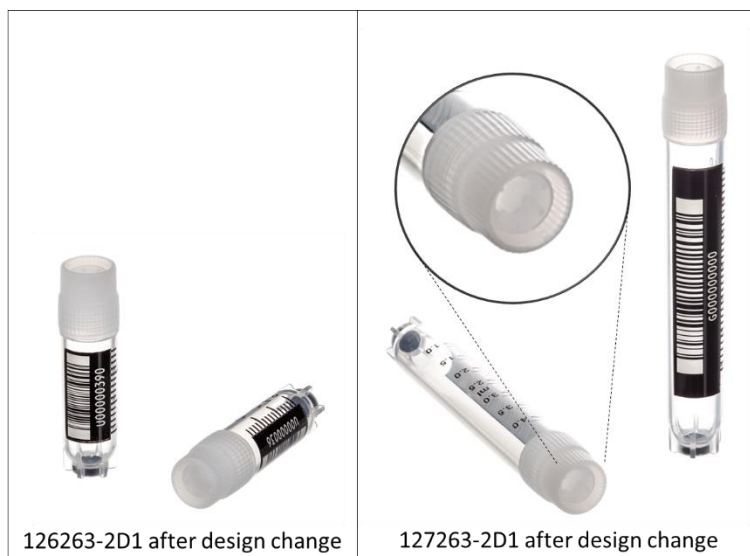

| 126263-2D1 after design change | 127263-2D1 after design change |

Figure 2: Exemplified new product designs.

Table 1: Cryo.s™ with external thread – design change of screw cap from June 2020 on.

Cryo.s™ with external thread and old cap design		Cryo.s™ with external thread and new cap design	
Description and part nos.	Lot no.	Part no.	Lot no.
1. Non coded Cryo.s™ with external thread:			
▪ Cryo.s™ with external thread 2 ml, no barcode, all colors ▪ Part nos. 1262xx	<E2006XXXX	▪ Part nos. remain the same: 1262xx	≥E2006XXXX
▪ Cryo.s™ with external thread 4 ml, no barcode, all colors ▪ Part nos. 1272xx	<E2006XXXX	▪ Part nos. remain the same: 1272xx	≥E2006XXXX
2. Cryo.s™ with external thread and customized coding:			
▪ Cryo.s™ with external thread 2 ml, customized coding, all colors ▪ Part nos. 1262xx-2D1	All customized orders received before June 1st, 2020 (<E2006XXXX)	▪ Part nos. remain the same: 1262xx-2D1	All customized orders received after May 31st, 2020 (≥E2006XXXX)
▪ Cryo.s™ with external thread 4 ml, customized coding, all colors ▪ Part nos. 1272xx-2D1	All customized orders received before June 1st, 2020 (<E2006XXXX)	▪ Part nos. remain the same: 1272xx-2D1	All customized orders received after May 31st, 2020 (≥E2006XXXX)
3. Cryo.s™ with external thread and barcodes/2D codes 'off-the-shelf':			
▪ Cryo.s™ with external thread 2 ml, 'off-the-shelf' coding, all colors ▪ Part nos. 1262xx-2DG	<E2006XXXX	▪ Part nos. remain the same: 1262xx-2DG	≥E2006XXXX
▪ Cryo.s™ with external thread 2 ml, 'off-the-shelf' coding, all colors ▪ Part nos. 1272xx-2DG	<E2006XXXX	▪ Part nos. remain the same: 1272xx-2DG	≥E2006XXXX

Until the end of May 2020, all items listed in Table 1 will be produced with the old (current) screw cap design. Beginning on June 1st, 2020, externally threaded Cryo.s™ will be produced with the new screw cap version. Remaining stock of Cryo.s™ with external thread and old-design caps which may eventually exist in June will be sold first, before Cryo.s™ with new cap design will be released for sale.

2.2. Cap inserts

Already in January 2020 new cap inserts were introduced. These new cap inserts are shorter than the old ones and can thus be universally used in combination with both: new screw caps of externally threaded Cryo.s™ (see also figure 3) and screw caps of internally threaded Cryo.s™. Table 2 lists the part nos. for both versions of cap inserts. ***Note***: During an eventual transition period with mixed stock of externally threaded Cryo.s™ with both cap versions, attention needs to be paid in case extra cap inserts are ordered: Depending on the type of screw cap used in production of a certain batch of externally threaded Cryo.s™, old or new cap inserts need to be ordered to secure proper fitting of inserts in caps.
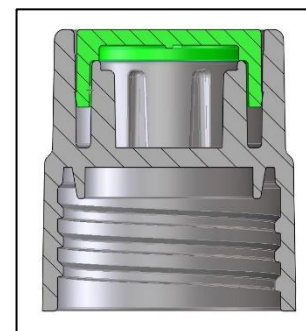

Figure 3: New screw cap for externally threaded Cryo.s™ with new cap insert.

Table 2: Cryo.s™ screw cap inserts – product overview.

Current version, high profile		New version, low profile	
- Compatible with all Cryo.s™ with external thread (non-barcoded and barcoded) with lot nos. <E2006XXXX. - Will be discontinued from June 2020 on.		- Compatible with all Cryo.s™ with external thread (non-barcoded and barcoded) in the future, Cryo.s™ with lot nos. ≥E2006XXXX. - Are already available and can be also used with internally threaded Cryo.s™.	
Color	**Part no.**	**Color**	**Part no.**
Yellow	304126	Yellow	304130
Light blue	304124	Light blue	304131
Light green	304125	Light green	304132
Pink	304123	Pink	304133
White	304171	White	304134

3. Potential implications of design change and requirement of customer information

3.1. Utilization of screw cap inserts

As detailed under 2.1., Cryo.s™ with external thread and new, decapper-friendly screw cap require low-profile cap inserts. All boxes of Cryo.s™ with external thread produced with new screw caps (from June 2020 on) will contain the appropriate cap insert type. Furthermore, each box will contain a little leaflet providing customers with the correct part-number information for compatible (low-profile) screw cap inserts in case they intend to order extra inserts.

3.2. Use with decappers

Decapper-compatibility of the old and new screw cap design of Cryo.s™ with external thread has been confirmed for the devices listed in table 3.

Table 3: Compatibility of externally-threaded Cryo.s™ caps – old and new design.

Manufacturer	Device		Compatibility with old screw cap design	Compatibility with new screw cap design
FluidX	XSD-48PRO plus bit/collet types 164B-10-013_B and 164B-10-013_D		Yes	No, existing decappers require adaption, GBO can moderate/facilitate dialogue between customer and FluidX in case old decappers need to be adapted
FluidX	XSD-48PRO plus bit/collet type 164B-10-013_C		Yes	No, existing decappers require adaption, GBO can moderate/facilitate dialogue between customer and FluidX in case old decappers need to be adapted
FluidX	IntelliXcap™		Yes	Yes

Hamilton	LabElite DeCapper	No	Yes
Hamilton	LabElite I.D. Capper	No	Yes
Hamilton	LabElite Integrated I.D. Capper	No	Yes
Hamilton	LabElite DeCapper SL	No	Yes
Hamilton	LabElite DeCapper full rack version (new)	No	Yes

3.3. Informing customers

Please inform your customers, in particular all customers using automated decappers, actively about this upcoming design change. The attached customer information may be used for this purpose.

3.4. Sampling of customers

The Cryo.s™ tube versions 126263-2DC and 127263-2DC carry the new decapper-friendly cap, are available in stock and already released for sampling and sales. Both tubes carry linear barcode 128, a human readable tube ID and a 2D barcode. Please note: Once the afore described design change is completed (presumably June/July 2020) both items will be discontinued since by then, they will be replaced by the identical items 126263-2DG and 127263-2DG.