Kangaroo™ Balloon Gastrostomy.

Clinician Booklet.



CardinalHealth™ Kangaroo

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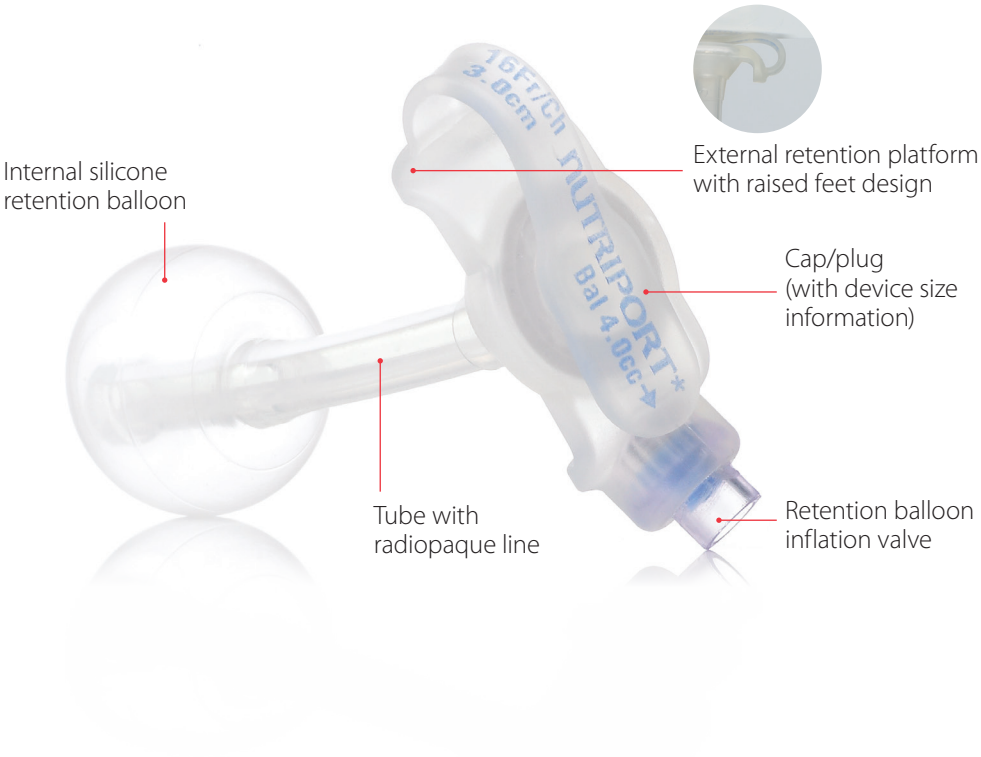
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This booklet has been designed to provide simple answers to your questions regarding managing a gastrostomy tube. We trust that you will find it helpful, especially when you have returned to your home. Not all situations can be covered in this booklet therefore your healthcare professional should remain your primary source of information.

Kangaroo™ Skin Level Balloon Gastrostomy.

The Kangaroo™ Skin Level Balloon Gastrostomy Tube is manufactured from 100% silicone for comfort and longevity. The external section has one of the lowest profiles available to ensure that it is very discrete under clothing. The length of your gastrostomy is determined by the distance between your stoma and stomach.



Balloon dimensions and capacity.

Size Fr/Ch	O.D. (mm)	Balloon Capacity (mL)
12	4.0	2.5
14	4.7	4.0
16	5.3	4.0
18	6.0	5.0
20	6.7	5.0
24	8.0	6.0

Do not exceed prescribed fill volume. **The inflated balloon should be symmetrical.**

Kangaroo™ Balloon Gastrostomy.

Kit Components.



Each Kangaroo™ Balloon Gastrostomy Kit includes:

Description	Qty
Kangaroo™ Skin Level Balloon Gastrostomy	1
Bolus Feeding Set	1
Continuous Feeding Set	1
60cc Syringe	1
6cc Syringe	1
Gauze Pads	1

Kangaroo™ Feeding Sets.

There are two types of feeding regimens:

1. **Bolus feeding:** used to deliver feed within a short period.
2. **Continuous feeding:** used to deliver feed at a slower rate. An enteral feeding pump is often used with this method.

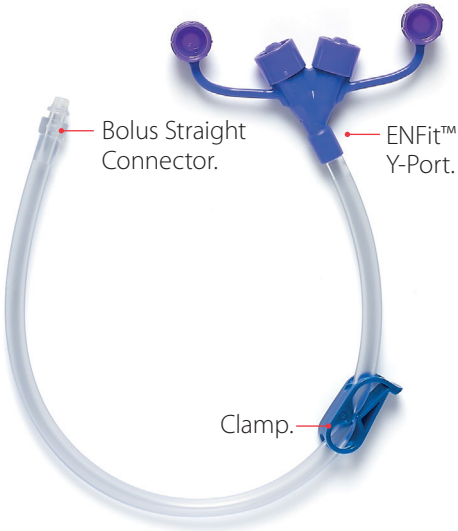
When using a Kangaroo™ Balloon Gastrostomy, feeding sets should always be utilised for feeding. Syringes and pump feeding sets should never be inserted directly into the gastrostomy button as this can cause damage to the anti-reflux valve.

There are two types of feeding sets:

Bolus Feeding.



Straight tipped connection, used to deliver feed within a short period of time, water flushes and medication administration.

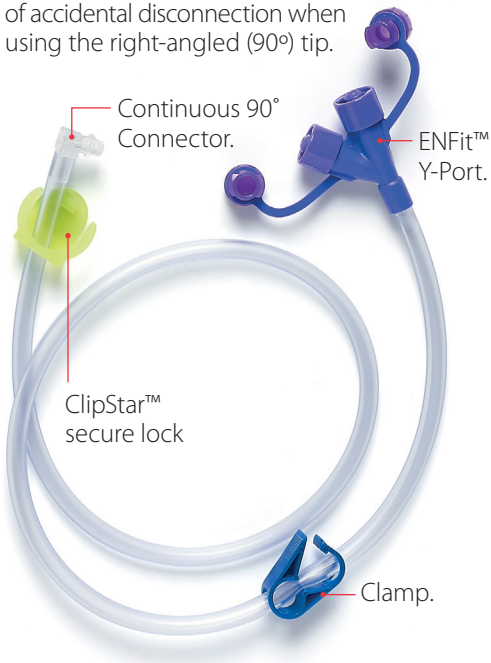


Continuous Feeding.



Continuous feeding 90˚ angled with Clipstar™ secure lock connection used to deliver continuous feed, water flushes and medication administration.

The yellow **Clipstar™** eliminates the risk of accidental disconnection when using the right-angled (90º) tip.



Feeding set range

Code	Description	Qty
8884741813	Bolus (straight) feeding set, non-sterile	10
8884741821	Continuous (90º) feeding set, non-sterile	10

ENFit™ Connection.

The ENFit™ connector on the syringe or pump feeding set connects to the end of the enteral feeding port on the continuous and bolus feeding sets. There is an additional medicine or "Y-Port" for administering medication or extra water to flush the tubing if required. The stomach can be decompressed (emptied of gas) by attaching a feeding set and connect a ENFit™ syringe without the barrel to the ENFit™ ports.



ENFit™ Connection Syringe to Y-Port.



ENFit™ Connection Pump Feeding Set to Y-Port.

How to:

Connect the Bolus and Continuous Feeding Sets to the Kangaroo™ Skin Level Balloon Gastrostomy.



Continuous (90º) Feeding Set.



Bolus (Straight) Feeding Set.

How to:

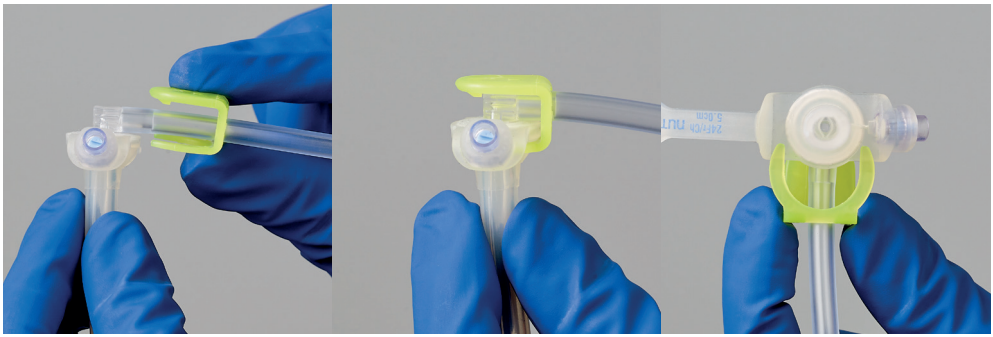
Connect the Kangaroo™ Continuous Feeding Set Clipstar™ Security Clip.

To Connect:

1. Insert the continuous feeding set adapter into the Kangaroo™ Skin Level Balloon Gastrostomy Tube.
2. Slide the Clipstar Enternal Security Clip along the continuous feeding set tube and toward the Kangaroo™ Skin Level Balloon Gastrostomy Tube.
3. Hold the Kangaroo™ Skin Level Balloon Gastrostomy Tube with thumb and forefinger and insert the feet of the Clipstar™ under the external retention device. Lift the top of the Clipstar™ device and advance toward the 90° adaptor.
4. Continue to advance the Clipstar™ device until the rounded feet are completely under the external retention device and the locking tab has snapped or clicked into place over the 90° adapter.

To Disconnect:

1. Lift up on the locking tab to disengage from the 90° adapter.
2. While holding the Kangaroo™ Skin Level Balloon Gastrostomy Tube with thumb and forefinger, grab the top of the Clipstar™ and disengage from the Kangaroo™ Skin Level Balloon Gastrostomy Tube. Wiggle the feet back and forth to help disengage it from the Kangaroo™ Skin Level Balloon Gastrostomy Tube.
3. Once the Clipstar™ device has been disengaged from the Kangaroo™ Skin Level Balloon Gastrostomy Tube, the continuous feeding set may be removed.



How to:

Determine Stoma Length When Using Stoma Measuring Device.

1. Prior to removal of the existing gastrostomy tube, it is recommended that you mark the existing tube at skin level to obtain a tract measurement for comparison with the one obtained with the Kangaroo™ Stoma Measuring Device.
2. Remove the existing gastrostomy tube.
3. Clean the skin around the stoma site with soap and water, povidone-iodine or any other cleansing solution per facility standards.
4. With the patient in supine position, insert the Stoma Measuring Device through the stoma into the stomach. Stoma depth measurements may vary depending upon the patient's position. Tract lengths usually measure smaller when the patient is supine compared to the sitting position that may necessitate selection of a longer tube.
5. Gently squeeze the actuation handle (see Figure 1.) to extend the retention arms, then pull the stoma measuring device up to ensure that the retention arms are against the anterior gastric wall. Avoid excessive tension when measuring the tract with the stoma measuring device or the tract length could be underestimated and subsequent pressure necrosis could result.
6. Slide measuring bar down, so it lies flush upon the skin. Release the actuation handle and carefully remove the stoma measuring device. **Note:** If the actuation handle does not return to its original state or if resistance is felt when trying to remove the stoma measuring device, place the index & middle fingers on the lower portion of the handle and push the tip down with the thumb.

7 Using the bottom of the measuring bar, determine the graduation on the stoma measuring device. Rotate stoma measuring device a quarter turn and obtain an additional measurement for comparison.

8 Based on the measurements obtained, select a gastrostomy tube length that allows for in-and-out play (approx. 5 mm). This will potentially help reduce complications related to continual and excessive pressure on either the gastric mucosa or skin. To account for any potential weight gain or growth, selection may necessitate a slightly longer gastrostomy tube than indicated by the Stoma Measuring Device. If a step-up shim (spacer) is to be used, the shim thickness should be taken into account when determining gastrostomy tube length.

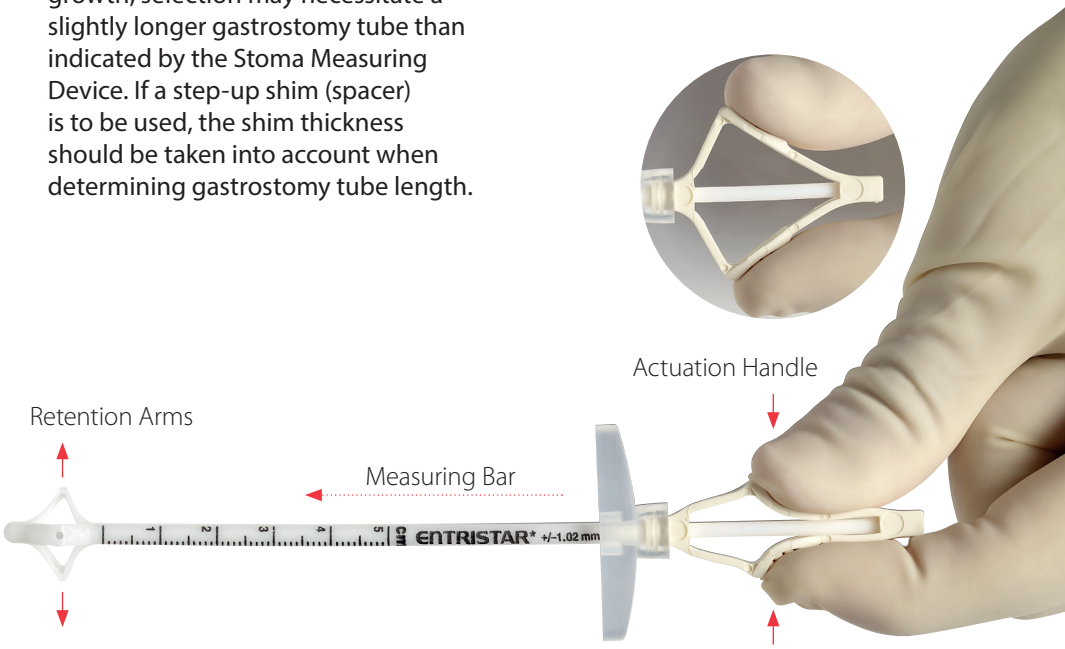


Figure 1.

How to:

Insert Kangaroo™ Skin Level Balloon Gastrostomy.

Note: If the patient has been given a paralytic agent, extra care may be required while advancing the device into the tract, because the abdominal wall will be flaccid.

1. Prepare the stoma site for Kangaroo Skin Level Balloon Gastrostomy insertion.
2. Remove the Kangaroo Skin Level Balloon Gastrostomy from the package and inspect it.
3. Fill the provided 6 mL Luer-Slip syringe with water or saline. Insert the syringe into the balloon fill-port and inflate the balloon with prescribed volume of fluid (see Fill Volume Table). If the balloon is found to be asymmetrical, gently roll it between your fingers or your hands until it becomes symmetrical.
4. Deflate the balloon by using the same 6 mL Luer-Slip syringe to aspirate the water or saline through the balloon fill-port.
5. Apply water-soluble lubricating jelly on the balloon tip of the Kangaroo Skin Level Balloon Gastrostomy and also on and into the patient's stoma tract.
6. Gently guide the tube through the stoma into the stomach until the external feet are flush to the skin.
7. Inflate balloon with prescribed volume (see Fill Volume Table) of water or saline through the balloon fill-port. The external flange of the Kangaroo Skin Level Balloon Gastrostomy should rotate freely. **Note:** Never fill the balloon with air. Air will rapidly diffuse through the balloon and the Kangaroo Skin Level Balloon Gastrostomy will not stay in place.

Fill Volume Level.

Size	Prescribed Fill Volume
12 Fr/Ch	2.5 mL
14 Fr/Ch	4.0 mL
16 Fr/Ch	4.0 mL
18 Fr/Ch	5.0 mL
20 Fr/Ch	5.0 mL
24 Fr/Ch	6.0 mL

9. With the continuous or bolus extension set connected to the Kangaroo Skin Level Balloon Gastrostomy, attach the catheter-tip syringe containing 10 mL water to the feeding part of the extension set. Aspirate for gastric contents. The presence of gastric contents in the syringe confirms the correct position in the stomach.

10. If there is a question about proper tube placement, confirm tube position radiographically. **Note:** The Kangaroo Skin Level Balloon Gastrostomy has a radiopaque stripe on the tube. **Do not** use contrast inside the balloon.

11. Begin feeding, only after proper placement and patency have been verified.



Recommended Inflation Volume.



Over Inflated Volume.

Ordering Information.

Code	Description	Qty
712080	Balloon SLG 12 Fr X 0.8 Cm	1
712100	Balloon SLG 12Fr X 1.0 Cm	1
712120	Balloon SLG 12 Fr X 1.2 Cm	1
712150	Balloon SLG 12Fr X 1.5 Cm	1
712170	Balloon SLG 12 Fr X 1.7 Cm	1
712200-	Balloon SLG 12Fr X 2.0 Cm	1
712230	Balloon SLG 12 Fr X 2.3 Cm	1
712250	Balloon SLG 12Fr X 2.5 Cm	1
712270	Balloon SLG 12 Fr X 2.7 Cm	1
712300	Balloon SLG 12Fr X 3.0 Cm	1
712350	Balloon SLG 12Fr X 3.5 Cm	1
712400	Balloon SLG 12Fr X 4.0 Cm	1
712450	Balloon SLG 12Fr X 4.5 Cm	1
712500-	Balloon SLG 12Fr X 5.0 Cm	1
714080	Balloon SLG 14 Fr X 0.8 Cm	1
714100	Balloon SLG 14Fr X 1.0 Cm	1
714120	Balloon SLG 14 Fr X 1.2 Cm	1
714150	Balloon SLG 14Fr X 1.5 Cm	1
714170	Balloon SLG 14 Fr X 1.7 Cm	1
714200	Balloon SLG 14Fr X 2.0 Cm	1
714230	Balloon SLG 14 Fr X 2.3 Cm	1
714250-	Balloon SLG 14Fr X 2.5 Cm	1
714270	Balloon SLG 14 Fr X 2.7 Cm	1
714300	Balloon SLG 14Fr X 3.0 Cm	1
714350-	Balloon SLG 14Fr X 3.5 Cm	1
714400	Balloon SLG 14Fr X 4.0 Cm	1
714450	Balloon SLG 14Fr X 4.5 Cm	1
714500	Balloon SLG 14Fr X 5.0 Cm	1
716080	Balloon SLG 16 Fr X 0.8 Cm	1
716100	Balloon SLG 16Fr X 1.0 Cm	1
716120	Balloon SLG 16 Fr X 1.2 Cm	1
716150	Balloon SLG 16Fr X 1.5 Cm	1
716170-	Balloon SLG 16Fr X 1.7 Cm	1
716200	Balloon SLG 16Fr X 2.0 Cm	1
716230-	Balloon SLG 16 Fr X 2.3 Cm	1
716250	Balloon SLG 16Fr X 2.5 Cm	1
716270	Balloon SLG 16 Fr X 2.7 Cm	1
716300-	Balloon SLG 16Fr X 3.0 Cm	1
716350-	Balloon SLG 16Fr X 3.5 Cm	1
716400	Balloon SLG 16Fr X 4.0 Cm	1
716450	Balloon SLG 16Fr X 4.5 Cm	1
716500	Balloon SLG 16Fr X 5.0 Cm	1
718080	Balloon SLG 18 Fr X 0.8 Cm	1
718100	Balloon SLG 18Fr X 1.0 Cm	1

Code	Description	Qty
718120	Balloon SLG 18 Fr X 1.2 Cm	1
718150-	Balloon SLG 18Fr X 1.5 Cm	1
718170	Balloon SLG 18 Fr X 1.7 Cm	1
718200	Balloon SLG 18Fr X 2.0 Cm	1
718230	Balloon SLG 18 Fr X 2.3 Cm	1
718250-	Balloon SLG 18Fr X 2.5 Cm	1
718270	Balloon SLG 18 Fr X 2.7 Cm	1
718300-	Balloon SLG 18Fr X 3.0 Cm	1
718350-	Balloon SLG 18Fr X 3.5 Cm	1
718400	Balloon SLG 18Fr X 4.0 Cm	1
718450-	Balloon SLG 18Fr X 4.5 Cm	1
718500	Balloon SLG 18Fr X 5.0 Cm	1
720080	Balloon SLG 20 Fr X 0.8 Cm	1
720100	Balloon SLG 20Fr X 1.0 Cm	1
720120	Balloon SLG 20 Fr X 1.2 Cm	1
720150-	Balloon SLG 20Fr X 1.5 Cm	1
720170	Balloon SLG 20 Fr X 1.7 Cm	1
720200	Balloon SLG 20Fr X 2.0 Cm	1
720230-	Balloon SLG 20 Fr X 2.3 Cm	1
720250	Balloon SLG 20Fr X 2.5 Cm	1
720270	Balloon SLG 20 Fr X 2.7 Cm	1
720300	Balloon SLG 20Fr X 3.0 Cm	1
720350	Balloon SLG 20Fr X 3.5 Cm	1
720400	Balloon SLG 20Fr X 4.0 Cm	1
720450-	Balloon SLG 20Fr X 4.5 Cm	1
720500	Balloon SLG 20Fr X 5.0 Cm	1
724080	Balloon SLG 24 Fr X 0.8 Cm	1
724100	Balloon SLG 24Fr X 1.0 Cm	1
724120	Balloon SLG 24 Fr X 1.2 Cm	1
724150	Balloon SLG 24Fr X 1.5 Cm	1
724170	Balloon SLG 24 Fr X 1.7 Cm	1
724200	Balloon SLG 24Fr X 2.0 Cm	1
724230	Balloon SLG 24 Fr X 2.3 Cm	1
724250	Balloon SLG 24Fr X 2.5 Cm	1
724270	Balloon SLG 24 Fr X 2.7 Cm	1
724300-	Balloon SLG 24Fr X 3.0 Cm	1
724350-	Balloon SLG 24Fr X 3.5 Cm	1
724400	Balloon SLG 24Fr X 4.0 Cm	1
724450	Balloon SLG 24Fr X 4.5 Cm	1
724500	Balloon SLG 24Fr X 5.0 Cm	1
8884741805	Stoma Measuring Device for Profile	5
8884741813	Bolus Feeding Set	10
8884741821	Cont. Feeding Set	10



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