

CLOSED WOUND DRAINAGE



Reference Guide - Adaptors

What Is a Wound Drain?

“A wound drain is typically a plastic tube that provides a way for unnecessary body fluids or air to flow out of the body from a wound. The purpose of the drain is to remove fluid and/or blood from the area of surgery. This helps the healing process. One end of the wound drain is placed within the wound and the other end may be connected to a suction collection device. The fluid may be collected in a drainage bag, plastic bulb, plastic carton, or onto a dressing.”

http://www.icu-usa.com/tour/equipment/wound_drain.htm

What Types Of Surgeries Are Wound Drains Commonly Used In?

Surgical Procedure	Surgical	Small Bore	Large Bore	x2 Drains
Total Hip Replacement	Ortho		X	
Total Knee Replacement	Ortho	X	X	
Spine	Ortho/Neuro	X		
Craniotomy	Neuro	X		
Radical Mastectomy	General	X	X	X
Partial Mastectomy	General	X		X
Abdominal	General		X	X
Colon	General		X	
Gastric Resection	General		X	
Appy	General		X	
Epigastric hernia	General		X	
Abdominoplasty	Gen/Plastic		X	X
Breast Reduction	Plastic	X	X	
Radical Neck	ENT	X	X	
Thyroidectomy	ENT	X	X	

What Type Of Drains Does BARD Have For These Types of Surgeries?

BARD has Channel drains, perforated silicone and PVC drains. These are typically attached to a suction device. This could be a bulb evacuator, a three-spring evacuator or wall suction. Common terms you may hear here are:

- Bulb Evacuator
- ‘Grenade’, ‘JP’
- Three Spring Evacuator
- ‘Pancake’

To attach the drain to the evacuator you may need to use an adapter. Many of our

drains are packaged with multiple adapters. Why?

- The different adapters typically allow you to connect to both Silicone and PVC evacuators
- Extra adapters may be provided to allow the user to connect multiple drains to an evacuator (example - double round drains)



Adapters

Basic Overview ►►

To determine if an adapter is needed, you will need to know some basic information.

1. What are the drain and evacuator made out of?
2. What is the size of the drain?
3. For PVC evacuators, what type of Y-Connector are you using?
4. Are you using a kit?

1. Type of Materials

Drains and evacuators are made out of either silicone or PVC. Here are examples of our products.



General Rules- When do I use an adapter?

Connecting like material requires no adapters

Silicone Drain → Silicone Bulb Evacuator → No Adapter Required

PVC Drain → PVC Evacuator (3-Spring/RELIAVAC® Evacuator) → No Adapter Required

Connecting unlike material requires an adapter

Silicone Drain → PVC Evacuator (3-Spring/RELIAVAC® Evacuator) → Adapter Always Required

3. Type of Evacuator Y-Connector

Once again, the general rule of thumb says when connecting like materials, no adapter is needed.

PVC Drain → PVC Evacuator (3-Spring/RELIAVAC® Evacuator) → No Adapter Required

The Exception: If you use a RELIAVAC® evacuator, an adapter may be needed



The reason, the Three Spring Evacuator has a Crab Claw Y-connector that can be cut to customize the end to fit the PVC drain





The RELIAVAC® evacuator does not

2. Size of Drain

The general rule of thumb says when connecting like materials, no adapter is needed.

Silicone Drain → Silicone Bulb Evacuator → Typically No Adapter Required

The Exception: If the drain is very large or very small, an adapter is needed to fit it on the evacuator

DRAIN SIZE	ADAPTER REQUIRED?	TYPE OF ADAPTER
3/32in, 1/8in 10Fr	Yes	
3/16in, 1/4in 15Fr, 19Fr, 10mm, 7mm	No	
19Fr (Channel Hubless Round) 24Fr, 28Fr, 32Fr	Yes	

4. Are you Using a Kit?

Many of our kits are customized for the type of drain and evacuator.

The appropriate adapter may already be attached. In the case of the RELIAVAC® evacuator, the kits may actually have a smaller Y-connector that is customized for the drain. In this case an adapter is not needed. If not, use the rules defined above.



Channel Drains

Following is detail information about what adapters come with which products. Use as a quick reference

Part Number	Drain Size	Drain Material	Drain Shape	Perforated/ Fluted	Trocar	Dot Marker	Number of Adapters	
072186	10 Fr	Silicone	Channel Round	Full		Dot	1	1
072187	10 Fr	Silicone	Channel Round	Full	3.2	Dot	1	1
072226	10 Fr	Silicone	Channel- Round Hubless	Full		Dot	1	
072227	10 Fr	Silicone	Channel- Round Hubless	Full	3.2	Dot	1	
072221	10Fr	Silicone	Channel Round	3/4	1/8in	Dot	1	1
072213	10mm	Silicone	Channel Flat	3/4		Dot	1	
072214	10mm	Silicone	Channel Flat	Full		Dot	1	
072215	10mm	Silicone	Channel Flat	Full	3/16in	Dot	1	
072217	10mm	Silicone	Channel Flat	3/4	4.7	Dot	1	
072188	15 Fr	Silicone	Channel Round	Full		Dot	1	
072189	15 Fr	Silicone	Channel Round	Full	3/16in	Dot	1	
072223	15 Fr	Silicone	Channel Round	3/4	4.7	Dot	1	
072228	15 Fr	Silicone	Channel- Round Hubless	Full		Dot	1	
072229	15 Fr	Silicone	Channel- Round Hubless	Full	4.7	Dot	1	
072190	19 Fr	Silicone	Channel Round	Full		Dot	1	
072191	19 Fr	Silicone	Channel Round	Full	4.7	Dot	1	
072192	19 Fr	Silicone	Channel Round	Full	6.3	Dot	1	
072225	19 Fr	Silicone	Channel Round	3/4	3.16in	Dot	1	
072230	19 Fr	Silicone	Channel- Round Hubless	Full		Dot	2	
072231	19 Fr	Silicone	Channel- Round Hubless	Full	6.3	Dot	2	
072234	24 Fr	Silicone	Channel- Round Hubless	Full		Dot	2	
072290	28 Fr	Silicone	Channel- Round Hubless	Full		N	2	
072328	28 Fr	Silicone	Channel- Round Hubless	Full		Dot	2	
072292	32 Fr	Silicone	Channel- Round Hubless	Full		N	1	
072210	7mm	Silicone	Channel Flat	3/4		Dot	1	
072211	7mm	Silicone	Channel Flat	Full		Dot	1	
072212	7mm	Silicone	Channel Flat	Full	4.7	Dot	1	
072216	7mm	Silicone	Channel Flat	3/4	3/16in	Dot	1	



Silicone Drains

Following is detail information about what adapters come with which products. Use as a quick reference

Part Number	Drain Size	Drain Material	Drain Shape	Perforated/ Fluted	Length	Trocar	Number of Adapters
0070200	3/32 in	Silicone	Round	End	124.4cm		1
0070210	1/8 in	Silicone	Round	End	124.4cm		1
0070220	3/16 in	Silicone	Round	End	124.4cm		1
0070230	1/4 in	Silicone	Round	End	124.4cm		1
0070310	1/8 in	Silicone	Round	End	124.4cm	Y	3
0070320	3/16 in	Silicone	Round	End	124.4cm	Y	2
0070330	1/4 in	Silicone	Round	End	124.4cm	Y	2
0070370	10mm	Silicone	Flat Hubless	3/4	20cm		1
0070430	7mm	Silicone	Flat Hubless	Full	20cm		1
0070440	10mm	Silicone	Flat Hubless	Full	20cm		1
0070710	1/8 in	Silicone	Double Round	Mid	31.2cm	Y	6
0070720	3/16 in	Silicone	Double Round	Mid	31.2cm	Y	4
0070730	1/4 in	Silicone	Double Round	Mid	31.2cm	Y	4

PVC Drains

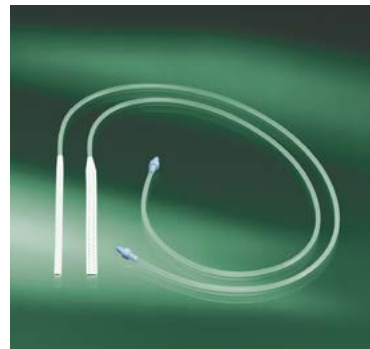
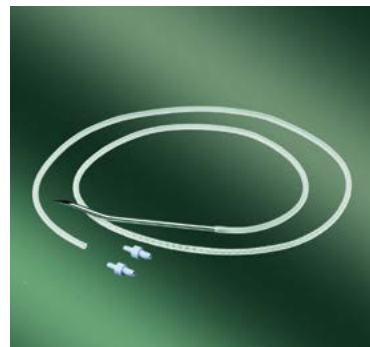
Following is detail information about what adapters come with which products. Use as a quick reference

Part Number	Drain Size	Drain Material	Drain Shape	Perforated/ Fluted	Trocar	Number of Adapters
0034660	1/8 in	PVC	Double Round	Mid		0
0034670	1/4	PVC	Double Round	Mid		0
0034680	3/16 in	PVC	Double Round	Mid		0
0080700	3/32 in	PVC	Double Round	Mid	Y	0
0080710	1/8 in	PVC	Double Round	Mid	Y	0
0080720	3/16 in	PVC	Double Round	Mid	Y	0
0080730	1/4 in	PVC	Double Round	Mid	Y	0



Where are the Adapters Used?

		1	Drain → Silicone Bulb Evacuator (no adapter needed) Drain → Blue Adapter → Y Connector PVC Evacuator
	1		Drain → Blue Adapter with Sleeve → Silicone Bulb Evacuator Drain → Blue Adapter → Y Connector PVC Evacuator
		1	Drain → Silicone Bulb Evacuator (no adapter needed) Drain → Blue Adapter → Y Connector PVC Evacuator
		1	Drain → Silicone Bulb Evacuator (no adapter needed) Drain → Blue Adapter → Y Connector PVC Evacuator
1	2		Drain → Blue Adapter with Sleeve → Silicone Bulb Evacuator Drain → Blue Adapter → Y Connector (s) PVC Evacuator
		2	Drain → Silicone Bulb Evacuator (no adapter needed) Drain → Blue Adapter → Y Connector PVC Evacuator
		2	Drain → Silicone Bulb Evacuator (no adapter needed) Drain → Blue Adapter → Y Connector PVC Evacuator
		1	Drain → Silicone Bulb Evacuator (no adapter needed) Drain → Blue Adapter → Y Connector PVC Evacuator
		1	Drain → Silicone Bulb Evacuator (no adapter needed) Drain → Blue Adapter → Y Connector PVC Evacuator
		1	Drain → Silicone Bulb Evacuator (no adapter needed) Drain → Blue Adapter → Y Connector PVC Evacuator
2	4		Drain → Blue Adapter with Sleeve → Silicone Bulb Evacuator Drain → Blue Adapter → Y Connector(s) PVC Evacuator Extra Adapters used if drain is cut
		4	Drain → Silicone Bulb Evacuator (no adapter needed) Drain → Blue Adapter → Y Connector(s) PVC Evacuator Extra Adapters are used if drain is cut
		4	Drain → Silicone Bulb Evacuator (no adapter needed) Drain → Blue Adapter → Y Connector(s) PVC Evacuator Extra Adapters are used if drain is cut



Where are the Adapters Used?

Drain → Y Connector of PVC Evacuator (no adapter needed) Connection to Silicone Bulb Evacuators not Recommended
Drain → Y Connector of PVC Evacuator (no adapter needed) Connection to Silicone Bulb Evacuators not Recommended
Drain → Y Connector of PVC Evacuator (no adapter needed) Connection to Silicone Bulb Evacuators not Recommended
Drain → Y Connector of PVC Evacuator (no adapter needed) Connection to Silicone Bulb Evacuators not Recommended
Drain → Y Connector of PVC Evacuator (no adapter needed) Connection to Silicone Bulb Evacuators not Recommended
Drain → Y Connector of PVC Evacuator (no adapter needed) Connection to Silicone Bulb Evacuators not Recommended
Drain → Y Connector of PVC Evacuator (no adapter needed) Connection to Silicone Bulb Evacuators not Recommended




Silicone Bulb Evacuator Kits

Part Number	Drain Size	Drain Material	Drain Shape	Perforated/ Fluted	Evacuator Included	Trocar	Number of Adapters
0071360	7mm	Silicone	Flat Hubless	3/4	Silicone Bulb 100cc		0
0071370	10mm	Silicone	Flat Hubless	3/4	Silicone Bulb 100cc		0
0071430	7mm	Silicone	Flat Hubless	Full	Silicone Bulb 100cc		0
0071440	10mm	Silicone	Flat Hubless	Full	Silicone Bulb 100cc		0
0072360	7mm	Silicone	Flat Hubless	3/4	Silicone Bulb 100cc	Y	0
0072370	10mm	Silicone	Flat Hubless	3/4	Silicone Bulb 100cc	Y	0
0072430	7mm	Silicone	Flat Hubless	Full	Silicone Bulb 100cc	Y	0
0072440	10mm	Silicone	Flat Hubless	Full	Silicone Bulb 100cc	Y	0
0073310	1/8 in	Silicone	Round	End	Silicone Bulb 100cc	Y	3
0073320	3/16in	Silicone	Round	End	Silicone Bulb 100cc	Y	2

RELIAVAC[®] Bulb Evacuator Kits (PVC)


Part Number	Drain Size	Drain Material	Drain Shape	Perforated/ Fluted	Evacuator Included	Trocar	Number of Adapters
0085310	1/8 in	Silicone	Round	End	RELIAVAC [®] Bulb 100cc	Y	2
0085320	3/16 in	Silicone	Round	End	RELIAVAC [®] Bulb 100cc	Y	2
0085360	7mm	Silicone	Flat Hubless	3/4	RELIAVAC [®] Bulb 100cc		3
0085370	10mm	Silicone	Flat Hubless	3/4	RELIAVAC [®] Bulb 100cc		3
0085380	7mm	Silicone	Flat Hubless	Full	RELIAVAC [®] Bulb 100cc		3
0085390	10mm	Silicone	Flat Hubless	Full	RELIAVAC [®] Bulb 100cc		3
0090360	7mm	Silicone	Flat Hubless	3/4	RELIAVAC [®] Bulb 100cc		3
0090370	10mm	Silicone	Flat Hubless	3/4	RELIAVAC [®] Bulb 100cc		3
0090380	7mm	Silicone	Flat Hubless	Full	RELIAVAC [®] Bulb 100cc		3
0090390	10mm	Silicone	Flat Hubless	Full	RELIAVAC [®] Bulb 100cc		3

Following is detail information about what adapters come with which products. Use as a quick reference

			Where are the Adapters Used?
			Drain → Silicone Bulb Evacuator (no adapter needed)
			Drain → Silicone Bulb Evacuator (no adapter needed)
			Drain → Silicone Bulb Evacuator (no adapter needed)
			Drain → Silicone Bulb Evacuator (no adapter needed)
			Drain → Silicone Bulb Evacuator (no adapter needed)
			Drain → Silicone Bulb Evacuator (no adapter needed)
			Drain → Silicone Bulb Evacuator (no adapter needed)
			Drain → Silicone Bulb Evacuator (no adapter needed)
1	2		Drain → Blue Adapter with Sleeve → Silicone Bulb Evacuator Drain → Blue Adapter → Y Connector(s) PVC Evacuator"
		2	Drain → Silicone Bulb Evacuator (no adapter needed) Drain → Blue Adapter → Y Connector (s) PVC Evacuator



Following is detail information about what adapters come with which products. Use as a quick reference

			Where are the Adapters Used?
1	1		Drain → Blue Adapter → to one arm of the Y Connector Extra Adapter- Drain → Blue Adapter with Sleeve → Silicone Bulb Evacuator
		2	Drain → Blue Adapter → to one arm of the Y Connector Extra Adapter for 2 nd Arm of Y Connector
		3	Drain → Blue Adapter → to one arm of the Y Connector Extra Adapters for 2 nd Arm of Y Connector
		3	Drain → Blue Adapter → to one arm of the Y Connector Extra Adapters for 2 nd Arm of Y Connector"
		3	Drain → Blue Adapter → to one arm of the Y Connector Extra Adapters for 2 nd Arm of Y Connector
		3	Drain → Blue Adapter → to one arm of the Y Connector Extra Adapters for 2 nd Arm of Y Connector
		3	Drain → Blue Adapter → to one arm of the Y Connector Extra Adapters for 2 nd Arm of Y Connector
		3	Drain → Blue Adapter → to one arm of the Y Connector Extra Adapters for 2 nd Arm of Y Connector
		3	Drain → Blue Adapter → to one arm of the Y Connector Extra Adapters for 2 nd Arm of Y-Connector




RELIAVAC® Bottle Evacuators Kits (PVC)

Part Number	Drain Size	Drain Material	Drain Shape	Perforated/Fluted	Evacuator Included	Trocar	Number of Adapters
0034600	3/32 in	PVC	Round	Mid	RELIAVAC® 400cc	Y	1
0034610	1/8 in	PVC	Round	Mid	RELIAVAC® 400cc	Y	1
0034620	1/4 in	PVC	Round	Mid	RELIAVAC® 400cc	Y	1
0034630	3/16 in	PVC	Round	End	RELIAVAC® 400cc	Y	1
0070480	1/8 in	Silicone	Round	End	RELIAVAC® 400cc	Y	6
0070490	3/16 in	Silicone	Round	End	RELIAVAC® 400cc	Y	5
0070510	1/4 in	Silicone	Round	End	RELIAVAC® 400cc	Y	5

Three Spring Evacuators Kits (PVC)


Part Number	Drain Size	Drain Material	Drain Shape	Perforated/Fluted	Evacuator Included	Trocar	Number of Adapters
0043600	3/32	PVC	Round	Mid	3-Spring	Y	0
0043610	1/8 in	PVC	Round	Mid	3-Spring	Y	0
0043620	1/4 in	PVC	Round	End	3-Spring	Y	0
0043630	3/16 in	PVC	Round	End	3-Spring	Y	0
0043660	1/8	Silicone	Round		3-Spring	Y	3
0043670	1/4	Silicone	Round		3-Spring	Y	2

Following is detail information about what adapters come with which products. Use as a quick reference

			Where are the Adapters Used?
		1	Drain → Y Connector (no adapter needed) Evacuator → White Connector → Wall Suction
		1	Drain → Y Connector (no adapter needed) Evacuator → White Connector → Wall Suction
		1	Drain → Y Connector (no adapter needed) Evacuator → White Connector → Wall Suction
		1	Drain → Y Connector (no adapter needed) Evacuator → White Connector → Wall Suction
1	4	1	Drain → Blue Adapter → to one arm of the Y Connector Drain → Blue Adapter with Sleeve → Silicone Bulb Evacuator Evacuator → White Connector → Wall Suction
	4	1	Drain → Blue Adapter → to one arm of the Y Connector Evacuator → White Connector → Wall Suction
	4	1	Drain → Blue Adapter → to one arm of the Y Connector Evacuator → White Connector → Wall Suction



Following is detail information about what adapters come with which products. Use as a quick reference

			Where are the Adapters Used?
			Drain → Pre-cut Y Connector (no adapter needed)
			Drain → Pre-cut Y Connector (no adapter needed)
			Drain → Pre-cut Y Connector (no adapter needed)
			Drain → Pre-cut Y Connector (no adapter needed)
1	2		Drain → Blue Adapter → to one arm of the Y Connector Drain → Blue Adapter with Sleeve → Silicone Bulb Evacuator
	2		Drain → Blue Adapter → to one arm of the Y Connector Drain → Blue Adapter with Sleeve → Silicone Bulb Evacuator



Summary

Silicone Drains to Silicone Evacuators

- Use the adapter with the silicone sleeve to connect it to the silicone bulb
- If no adapter with a silicone sleeve is included in the package, attach the drain directly to the silicone bulb



Silicone Drains to PVC Evacuators

- Use the blue adapter that has no sleeve to connect to PVC type evacuators such as the Three spring evacuator/RELIAC® bulb and RELIAC® Bottle evacuators



PVC Drains to Silicone Evacuators

- Not recommended

PVC Drains to PVC Evacuators

- For Three Spring Evacuators, attach the drain directly to the Y connector. No adapter is required
- For the RELIAC® family of evacuators, an adapter is normally needed unless it is a customized kit.



Indications for Use: BARD® Channel Drains, round and flat silicone, are indicated for use with selected BARD evacuators for closed wound drainage following head and neck, orthopedic, abdominal, ENT, OB/GYN, plastic, neurosurgery, thoracic and cardiovascular (channel drains only) procedures

Warnings:

- If an air-tight seal between the drain and the skin where the drain emerges is not achieved, the air leak must be rectified or the system must be converted to open drainage.
- An airtight seal between all system components (drain, adaptor and reservoir) is necessary for proper system function
- Evacuators should be emptied and re-activated when required per hospital protocol.

Please consult product labels and inserts for any indications, contraindications, hazards, warnings, cautions and instructions for use.



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