

# BLAKE<sup>®</sup> Silicone Drains

Designed to Channel  
**Better Patient  
Comfort**



BLAKE<sup>®</sup> Drain 24FR Round Hubless shown

**ETHICON**

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# Benefits of BLAKE<sup>®</sup> Silicone Drains

## Excellent Drainage

- Four continuous channels provide greater tissue contact area than regular perforated drains<sup>1</sup>
- Offers multiple drainage routes to resist clogging<sup>1</sup>
- Constructed of silicone with solid center designed for strength and flexibility

## Greater Patient Comfort

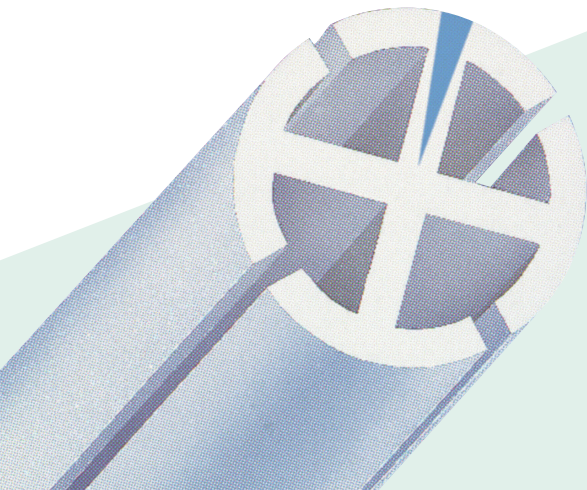
as compared to rigid chest tubes

- Patients experience less discomfort upon removal<sup>2</sup>
- Smaller, more flexible tube<sup>3,4,5</sup>
- Due to channel design, removal may be less traumatic to surrounding tissues in comparison to designs with holes<sup>3,6</sup>

## Enhanced Ambulation

as compared to rigid chest tubes

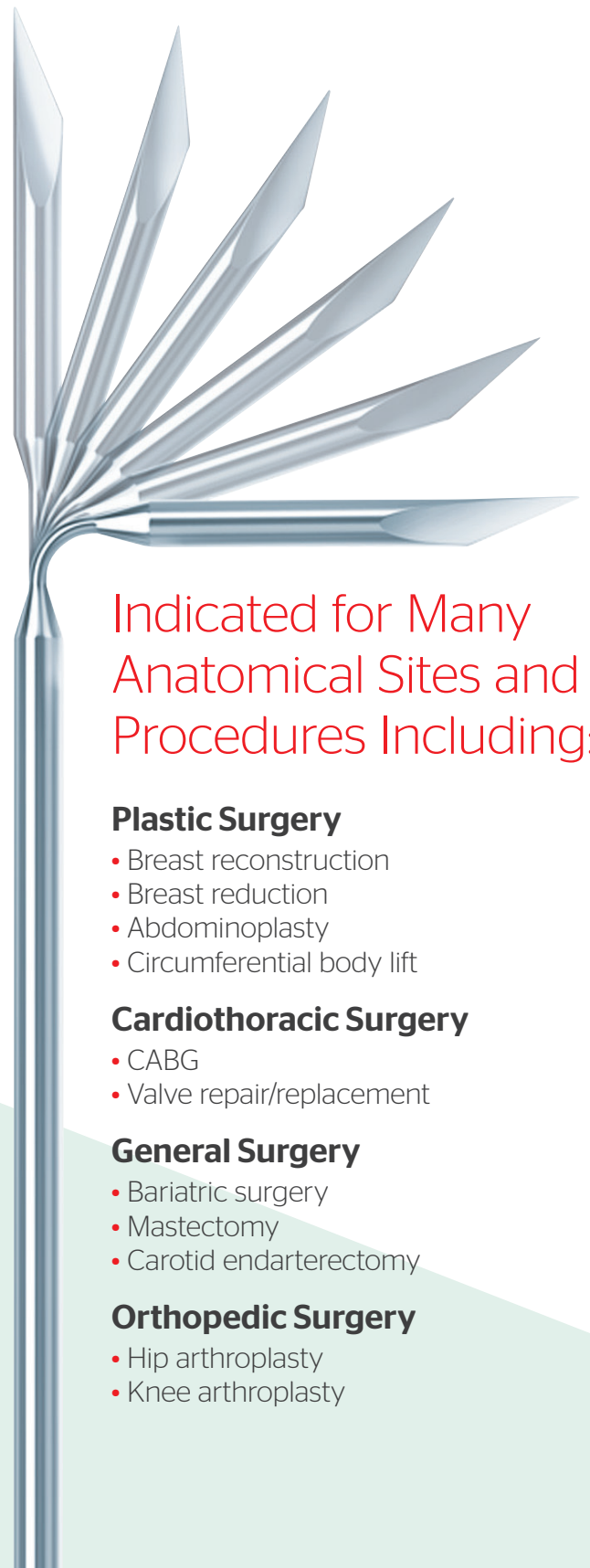
- Patients experience greater ease of mobility postoperatively<sup>5,7</sup>
- Less discomfort during experimental patient movement and deep breathing exercises in comparison to conventional rigid tube<sup>8</sup>
- May help speed recovery compared to conventional rigid tube<sup>1</sup>



# Flexible in More Ways Than One

## Bendable Trocar Technology

- Can be angled to facilitate easier placement of the drain (15FR and 19FR Round Hubless BLAKE Drains only)



## Indicated for Many Anatomical Sites and Procedures Including:

### **Plastic Surgery**

- Breast reconstruction
- Breast reduction
- Abdominoplasty
- Circumferential body lift

### **Cardiothoracic Surgery**

- CABG
- Valve repair/replacement

### **General Surgery**

- Bariatric surgery
- Mastectomy
- Carotid endarterectomy

### **Orthopedic Surgery**

- Hip arthroplasty
- Knee arthroplasty

# Features of the 24FR BLAKE® Silicone Drain

## Larger Transition Zone

- Helps minimize the chance of clotting

## 16-Inch Extension Tubing

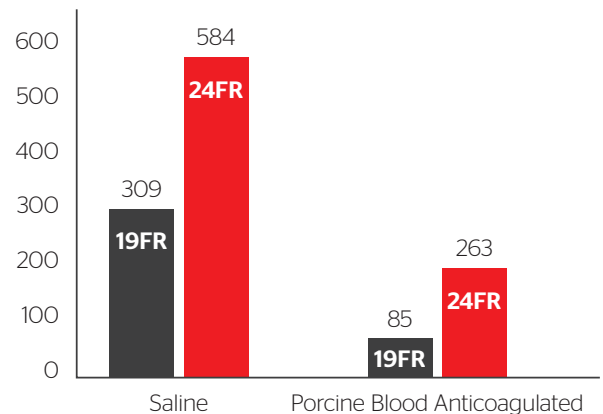
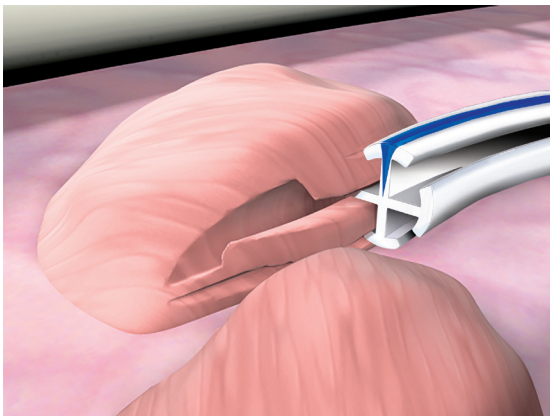
- Specifically designed for cardiovascular and thoracic procedures

## Bifurcated Stripe

- Easy to identify channel section on x-ray
- Distinguishes drain from other wires or leads on x-ray
- Provides a placement reference within the thoracic cavity

## Improved Flow Geometry<sup>9</sup>

- Larger channel lumen compared to the 19FR Blake Drain channel lumen
- Rounded inner lumen corners designed to maximize flow<sup>9</sup>



The flow rate of the 24FR BLAKE Drain is much higher than the 19FR BLAKE Drain.

# Ordering Information

## BLAKE® Silicone Drains (Flat, Full, or 3/4-Fluted) - Sterile

The product consists of a radiopaque flat silicone drain with four channels along the sides, a round silicone extension tube, and an adapter. The flat drain is channeled along either 75% or 100% of its length. Flat drains are available with or without a trocar.

Code	Description	Quantity/ Unit
2210	7 mm Flat, 3/4 Fluted drain	10
2211	7 mm Flat, Full Fluted drain	10
2212	7 mm Flat, Full Fluted drain, with 3/16" trocar	10
2213	10 mm Flat, 3/4 Fluted drain	10
2214	10 mm Flat, Full Fluted drain	10
2215	10 mm Flat, Full Fluted drain, with 3/16" trocar	10
2216	7 mm Flat, 3/4 Fluted drain, with 3/16" trocar	10
2217	10 mm Flat 3/4 Fluted drain, with 3/16" trocar	10

## BLAKE® Silicone Drains (Round Hubless) - Sterile

The product consists of a silicone drain with four channels along the sides, a blue radiopaque stripe along the length of the drain, a round silicone extension tube, and an adapter. It is available with or without a trocar.

Code	Description	Quantity/ Unit
2226	10 FR Round drain	10
2227	10 FR Round drain with 1/8" trocar	10
2228	15 FR Round drain	10
2229	15 FR Round drain with 3/16" trocar	10
2230	19 FR Round drain	10
2231	19 FR Round drain, with 1/4" trocar	10
2232	19 FR Round drain, with 1/4" bendable trocar	10
2233	15 FR Round drain, with 3/16" bendable trocar	10
2234	24 FR Round drain	10

## J-VAC™ Reservoirs - Sterile

The J-VAC™ Reservoir is available in either a 150 ml, 300 ml, or 450 ml size. All are packaged sterile in a pre-compressed state and are capable of dual drainage. A standard anti-reflux valve has also been incorporated to help prevent the reverse flow of wound exudates during emptying and reactivation. Markers are provided at increments along the side of the reservoir to facilitate the approximate measurement of fluid. A drain port with attached plug is provided as a method of emptying exudate collected by the unit.

Code	Description	Quantity/ Unit
2161	150 ml J-VAC™ Reservoir	10
2162	450 ml J-VAC™ Reservoir	10
2163	300 ml J-VAC™ Reservoir	10

## J-VAC™ Bulb Suction Reservoir - Sterile

The J-VAC™ Bulb Suction Reservoir is available in 100 cc size. It is packaged sterile and has a standard anti-reflux valve. Markers are provided at increments along the side of the reservoir to facilitate the approximate measurement of fluid. A drain port with an attached plug is provided as a method of emptying exudate collected by the unit.

Code	Description	Quantity/ Unit
2160	J-VAC™ 100 cc Bulb Suction Reservoir	10

## J-VAC™ Adapters - Sterile

Code	Description	Quantity/ Unit
2199	J-VAC™ Drain Adapter 1/4"	100
2209	J-VAC™ Drain Adapter 1/8"	100
2298	J-VAC™ Drain Adapter 3/16"	100

## BLAKE™ Cardio Connectors - Sterile

Code	Description	Quantity/ Unit
BCC1	1:1, 3/8-1/2" X 3/16"	20
BCC2	2:1, 3/8-1/2" X 3/16" X 3/16"	20
BCC3	3:1, 3/8-1/2" X 3/16" X 3/16" X 3/16"	20

**For more information or ordering information, contact your local Ethicon sales professional, call 1-877-ETHICON (384-4266) or visit [Ethicon.com](http://Ethicon.com)**

## REFERENCES

1. Frankel TL. Silastic drains vs conventional chest tubes after coronary artery bypass. *Chest*. 2003;124:108-113.
2. Greenberg RL. Use of the BLAKE Drain and J-VAC Reservoir to enhance healing in plastic and reconstructive surgery.
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4. Hiroshi Niinami, Mimiko Tabata, Yasuo Takeuchi, et al. Experimental Assessment of the Drainage Capacity of Small Silastic Chest Drains. *Asian Cardiovasc Thorac Ann*. 2006;14:223-226.
5. Lancey R, Gaca C, Vander Salm TJ. The Use of Smaller, More Flexible Chest Drains Following Open Heart Surgery. *Chest*. 2001;119(1):19-24.
6. Obney JA. A method for mediastinal drainage after cardiac procedures using small silastic drains. *Ann Thorac Surg*. 2000;70:1109-1110.
7. Gundry SR. Facile minimally invasive cardiac surgery via ministernotomy. *Ann Thorac Surg*. 1998;65:1100-4.
8. Li X, Hu B, Miao J, et al. Reduce chest pain using modified silicone fluted drain tube for chest drainage after video-assisted thoracic surgery (VATS) lung resection. *J Thorac Dis*. 2016 Feb; 8(Suppl 1):S93-S98. Retrieved June 8, 2016: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4756238/>
9. M. Feinberg, B. Inamoto, J. Samon. Data on file. ETHICON, Inc., Design History: DH0976 (bk7) - DH0979, DH0978: 24 Fr Blake Silicon Drain. 2003.

For complete indications, contraindications, warnings, precautions, and adverse reactions, please reference full package insert.

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