Medtronic

HANCOCK® SPECIALTY PRODUCTS

Designed for Reconstructive and Special Cardiac Applications

Hancock® Bioprosthetic Valved Conduits • Models 105 and 150

Replacement of the pulmonary valve in Tetralogy of Fallot with a right ventricle-to-pulmonary artery (RV-PA) valved conduit.

Hancock bioprosthetic valved conduits consist of a porcine aortic valve sutured into the center of a woven fabric conduit. No stent is employed, optimizing the ratio of conduit outer diameter to inner diameter of the bioprosthesis. A reinforcing ring external to the conduit, at the level of the valve annulus, prevents loss of leaflet coaptation and allows radiographic visualization.

The Hancock bioprosthetic valved conduits are recommended for reconstruction of congenital or acquired cardiac and great vessel malformations or pathologies. Hancock valved conduits are packaged sterile in 0.2% glutaraldehyde. The conduits must be preclotted before use to minimize the potential for interstitial blood loss.

Note: These valved conduits are not intended for aortic root replacement.

FOR RIGHT HEART APPLICATIONS

- Hancock Modified Orifice valved conduit (Model 150)
- Standard-porosity graft (100 to 250 ml/H_2O/cm^2/min at 120 mmHg)
- Sizes: 12 mm, 14 mm, 16 mm, 18 mm, 20 mm, 22 mm, and 25 mm.

FOR RIGHT & LEFT HEART APPLICATIONS

- Hancock standard valved conduit (Model 105)
- Low-porosity graft (less than 50 ml/H_2O/cm^2/min at 120 mmHg)
- Sizes: 12 mm, 14 mm, 16 mm, 18 mm, 20 mm, 22 mm, and 26 mm.

Hancock® Trocar Blades and Handle • Model 1701

The Hancock Trocar uses disposable stainless steel cylindrical blades and matching tips in sizes corresponding to the outside diameters of the Hancock Apical Left Ventricle Connectors. The trocar is designed to create a clean, uniform, circular ventriculotomy with minimal trauma to surrounding tissues. The myocardial plug is retained within the blade to simplify removal.

The Hancock Trocar Handle is reusable. The disposable blade and tip sets must be ordered separately.

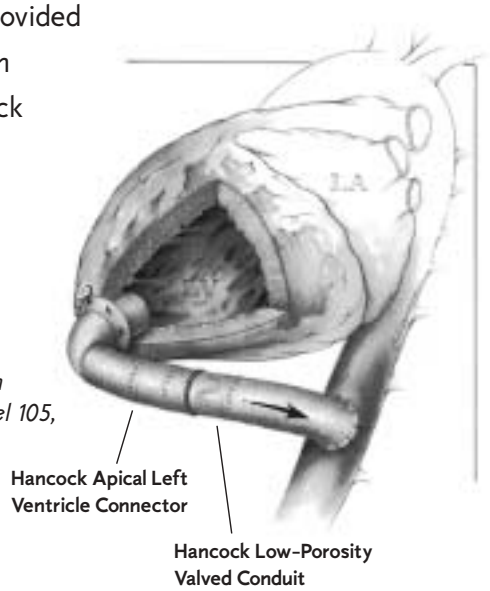
Trocar handle and blade/tip sets are provided clean, but not sterile.

Use of the Hancock Trocar for creating a uniform ventricular opening and removing the resulting circular tissue plug.

Hancock® Apical Left Ventricle Connector • Model 174A

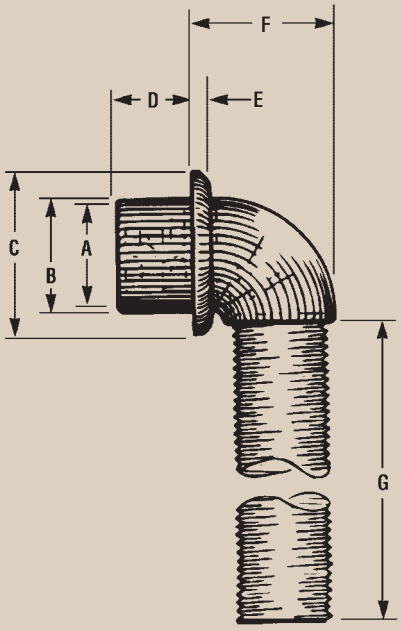
Hancock Apical Left Ventricle Connectors, which are used with Hancock low-porosity valved conduits (Model 105), provide an alternate method for relief of left ventricular outflow tract obstruction. The Hancock connector is curved at a 90° angle to facilitate anastomosis to the descending aorta. Low-porosity (50 ml/H_2O/cm^2/min at 120 mmHg) woven fabric extends through a flexible polypropylene stent for anastomosis to a Hancock bioprosthetic valved conduit. An additional suture ring (shim—see photo) is provided to control the depth of penetration into the left ventricle. Each Hancock Apical Left Ventricle Connector is provided clean, but not sterile, in a pouch ready for autoclaving or ethylene oxide sterilization.

NOTE: Intended for use in conjunction with Hancock low-porosity valved conduit, Model 105, and Hancock Trocar, Model H1701A.



Curved Connector (Model 174A)

Size	A	B	C	D	E	F	G Min
8	8	12	20	17	3	21	90
10	10	14	22	17	3	25	90
12	12	17	26	21	3	26	90
14	14	19	28	21	4	24	90
16	16	21	30	21	4	26	90
18	18	23	33	25	4	33	90
20	20	25	37	25	4	37	90
22	22	27	41	25	4	41	90
26	26	32	43	25	4	41	90



All dimensions are in millimeters

HANCOCK® SPECIALTY PRODUCTS ORDERING INFORMATION

Hancock Specialty Products are available from your local Medtronic Sales Representative

HANCOCK® BIOPROSTHETIC LOW-POROSITY VALVED CONDUITS (MODEL 105)							
Order #	HC105-12	HC105-14	HC105-16	HC105-18	HC105-20	HC105-22	HC105-26
Size	12 mm	14 mm	16 mm	18 mm	20 mm	22 mm	26 mm

HANCOCK® M.O. BIOPROSTHETIC STANDARD-POROSITY VALVED CONDUITS (MODEL 150)							
Order #	HC150-12	HC150-14	HC150-16	HC150-18	HC150-20	HC150-22	HC150-25
Size	12 mm	14 mm	16 mm	18 mm	20 mm	22 mm	25 mm

HANCOCK® APICAL LEFT VENTRICLE CONNECTORS (MODEL 174A)									
Order #	H174A-08	H174A-10	H174A-12	H174A-14	H174A-16	H174A-18	H174A-20	H174A-22	H174A-26
Size	8 mm	10 mm	12 mm	14 mm	16 mm	18 mm	20 mm	22 mm	26 mm

HANCOCK® TROCAR BLADES AND HANDLE (MODEL 1701A)									
Order#	H1701A-08	H1701A-10	H1701A-12	H1701A-14	H1701A-16	H1701A-18	H1701A-20	H1701A-22	H1701A-26
Size	8 mm	10 mm	12 mm	14 mm	16 mm	18 mm	20 mm	22 mm	26 mm

Handle Order#	HC1701A-1

HANCOCK® Porcine Valved Conduits

Indications: Reconstructive procedures for the repair of congenital or acquired cardiac and great vessel malformations or pathology

Contraindications: Patients undergoing chronic hemodialysis have an increased tendency towards calcification of tissue valved conduits.

Warnings/Precautions/Adverse Events: Preclot valved conduits to minimize hemorrhage through the conduit. Reported complications include: valvular thrombosis, thromboembolism, calcification and fibrosis, valvular insufficiency, perivalvular insufficiency, valvular stenosis, leaflet perforation, significant transvalvular pressure gradients in small size bioprostheses, valve contamination, development of intraluminal peel, and hemorrhage through the graft and anastomotic sites.

For additional information, please refer to the Instructions For Use provided with the product.

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician.

Hancock® Apical Left Ventricle Connector

Indications: (used in conjunction with Hancock Low Porosity Valved Conduits) provide a method of relief of left ventricular hypertension in patients with severe left ventricular outflow tract obstruction such as hypoplasia of the aortic root, aortic annulus, or acquired problems secondary to aortic valve replacement which cannot be relieved through conventional techniques.

Contraindications: None known

Warnings/Precautions/Adverse Events: The potential for interstitial blood loss exists, particularly in patients with hemodilution or clotting factor deficiencies. Minimize bleeding complications by preclotting the connector and/or valved conduit. It is recommended that patients with significant left ventricular hypertrophy be studied by echocardiography. Thromboembolism, while infrequent, has been reported.

For additional information, please refer to the Instructions For Use provided with the product.

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician.

Medtronic

When Life Depends on Medical Technology

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