

## ORDERING INFORMATION

CATHETER SIZE	INSERTION LENGTH**	BASIC SET WITHOUT SIDEHOLES	BASIC SET WITH SIDEHOLES	SPORT PACK WITH SIDEHOLES	UPGRADE KIT WITH SIDEHOLES	QUANTITY
15.5F	19CM	MBPS019*	MBPS019S*	MSPS019S*	MUPS019S*	5/BOX
15.5F	23CM	MBPS023*	MBPS023S*	MSPS023S*	MUPS023S*	5/BOX
15.5F	28CM	MBPS028*	MBPS028S*	MSPS028S*	MUPS028S*	5/BOX
15.5F	33CM	MBPS033*	MBPS033S*	MSPS033S*	MUPS033S*	5/BOX
15.5F	37CM	MBNS037	MBNS037S	MSNS037S	—	5/BOX
15.5F	42CM	MBNS042	MBNS042S	MSNS042S	—	5/BOX

\*Includes stylet \*\*Insertion length measured from tip to cuff

**BASIC SET CONTENTS:** (1) Catheter (1) Introducer Needle (1) Guidewire (2) Dilator (1) Tunneler (1) Valved Peelable Introducer (1) Scalpel (2) End Caps (1) Patient ID Card (1) Patient Label (1) Adhesive Wound Dressing \* (2) Stylets

**SPORTS PACK CONTENTS:** (1) Catheter (2) Dilator (1) Tunneler (1) Valved Peelable Introducer (2) End Caps (1) Patient ID Card (1) Patient Label \* (2) Stylets

**UPGRADE KIT CONTENTS:** (1) Catheter (2) End Caps (1) Patient ID Card (1) Patient Label \* (2) Stylets



### IMPORTANT RISK INFORMATION

**Indications for Use:** The Symetrex® Long Term Hemodialysis Catheter & Symetrex® Long Term Hemodialysis Catheter with Sideholes are symmetric tip dual lumen catheters designed for chronic hemodialysis and apheresis. It may be inserted percutaneously or by cut down. Catheters with greater than 37 CM implant length are indicated for femoral placement.

**Contraindications:** Do not use this catheter in thrombosed vessels or for subclavian puncture when ventilator is in use. This device is contraindicated whenever:

- Used for any purpose other than indicated in these instructions.
- The presence of other device related infection, or septicemia is known or suspected.
- End caps are not intended to be punctured with a needle.
- Severe chronic obstructive lung disease is present.
- Tissue factors in the localized area of device placement will prevent proper device stabilization and/or access.
- Venous thrombosis or vascular surgical procedures have occurred at the prospective placement site.
- Post irradiation of prospective insertion site.

Refer to Instructions for Use provided with the product for complete instructions, warnings, precautions, and contraindications. Observe all Instructions for Use prior to using products. Failure to do so may result in patient complications.

### CLINICAL REFERENCES

1. Vesely, TM The Challenges of Hemodialysis Catheter Use. Endovascular Today June 2013
2. Mickley, V Central Venous Catheters: Many Questions, Few Answers. Nephrol Dial Transplant. 2002 Aug;17(8): 1368-73.
3. Guttman, DM et al. Malfunctioning and Infected Tunneled Infusion Catheters: Over-The-Wire Catheter Exchange Versus Catheter Removal and Replacement. J Vasc Interv Radiol. 2011; 22:642-646. Doi: 10.1016/j.jvir.2011.01.440.
4. NKF-KDOQI Clinical Practice Guidelines and Clinical Practice Recommendations. 2006 Updates – Clinical Practice Guideline for Vascular Access. Guideline 2. Selection and Placement of Hemodialysis Access (Rationale: Catheters and Port Catheter Systems [CPg 2.4])
5. Rudski, LG et al. Guidelines for Echocardiographic Assessment of the Right Heart in Adults: A Report from the American Society of Echocardiography Endorsed by the European Association of Echocardiography. J Am Soc Echocardiogr. 2010 Jul;23(7):685-713; quiz 786-8. doi: 10.1016/j.echo.2010.05.010.
6. Twardowski, ZJ et al. Side Holes at the Tip of Chronic Catheters are Harmful. J Vasc Access. 2001; 2:8-16.

# SYMETREX®

## LONG TERM HEMODIALYSIS CATHETER



NOW AVAILABLE WITH SIDEHOLES



## SYMETREX®

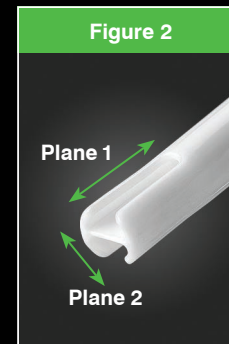
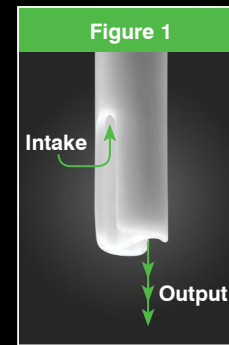
DESIGNED TO PRESERVE ACCESS

### Green Means Go™

The innovators at Medcomp proudly introduce the Symetrex® Long Term Hemodialysis Catheter engineered and designed to **Preserve Access**. Our novel, symmetrical tip was inspired by the desire to improve patient outcomes and rethink traditional catheter designs that may lead to premature catheter failure. Symetrex® combines RF tipping technology with a unique anti-wall suction design to produce a low recirculation, high flow catheter that meets the demands of the clinician, while our “Green Means Go” hub and luer system readily identifies the device in the dialysis unit. **Symetrex® ...Preserving Access leads to Improved Outcomes.**

#### FDA Cleared to “Reverse Lines as Needed.”

- Over 1/3 of hemodialysis catheters are run in reverse flow<sup>1</sup>
- Concern for high recirculation leads to catheter exchanges<sup>2</sup>
- Infection rates are 3.2x higher with exchanged catheters<sup>3</sup>



#### Symmetrical Tip\*

- FIGURE 1. Less than 1% recirculation\*\*

#### RF Tipping

- Smooth rounded edges

#### Anti-wall Suction Design

- FIGURE 2. Designed for maximum surface area and increased flow

#### Short Functional Tip

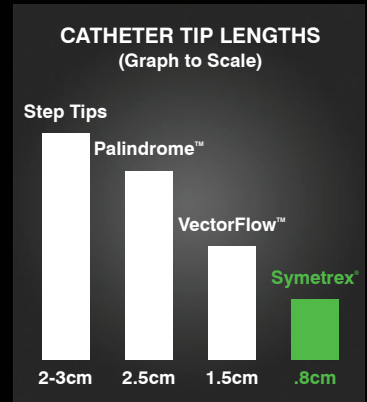
- KDOQI recommends placing tip in mid atrium<sup>4</sup>
- Right atrial lengths range from 3.2-5.5cm<sup>5</sup>
- Competitor tip designs are as long as 3cm
- FDA cleared to “reverse lines as needed”

#### High Flow / Lower Pressure

- 18% lower pressure gradient than Palindrome™\* at a flow rate of 450mL/min\*

#### Easy On – Easy Off Tunneler

SYMETREX®		FACTS
<b>Tip Protection</b> No barbs or forced attachment		Most tunnelers have barbs
<b>Secure Attachment</b> Tongs grips for ease of use		Barbs can cause damage to the tip
<b>Atraumatic</b> Tongs release once sheath is removed		Rough surfaces are known to cause thrombosis <sup>(6)</sup>
		Minute catheter surface irregularities permit platelet adhesion <sup>(6)</sup>



\*When tested in vitro \*\*In vitro data on file