



# CENTRAL VENOUS CATHETERS

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- 36** Floswitch®
- 37** Secalon-T™ Emergency Catheters
- 38** Careflow™ Central Venous Catheters and Catheter Sets
- 43** Hydrocath Assure™ Antimicrobial Central Venous Catheters and Catheter Sets



**Floswitch®**  
Sterile, single use

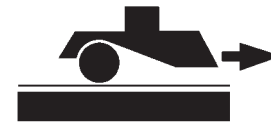
- Floswitch® acts as an ON/OFF device on infusion lines, stopping the flow in order to carry out line procedures in closed circuit.
- Designed to reduce risk of patient emboli and contamination of hospital staff to blood.
- The Floswitch® is designed to increase safety.
- Floswitch® can be connected to any catheter fitted with a Luer connector.
- Winged to facilitate attachment.

**Floswitch® closed**

External compression of the extension tubing by means of a steel ball, provides risk-free unambiguous opening and closing of the infusion line.



**Floswitch® open**



**ORDERING INFORMATION**

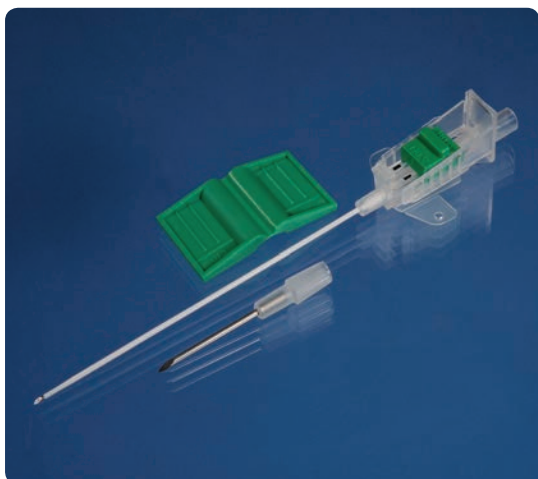
PRODUCT CODE	DESCRIPTION	BOX/CASE CONTENT (UNITS)
681033	Floswitch®	25/250

Latex free

CE marked

Class IIa according to the European Medical Devices Directive 93/42/EEC as amended by Directive 2007/47/EC Shelf life: 5 years

Sterilisation method: Ethylene Oxide



## Secalon-T™

Sterile, single use

- Secalon-T™ emergency catheter designed for high flow rate infusions.
- PTFE (Polytetrafluoroethylene) material construction and incorporating a Floswitch®, Secalon-T™ is ideal for rapid short-term insertion into central veins or large peripheral vessels.
- Complete kit contains pre-puncture stylus and stabilising wing.

### ORDERING INFORMATION

PRODUCT CODE	GAUGE	LENGTH	CATHETER EXTERNAL DIAMETER	COLOUR	BOX/CASE CONTENT (UNITS)	FLOW RATE (ML/MIN)
681000	18G	90mm	1.2mm	Green	25/250	55
681002	16G	130mm	1.7mm	Grey	25/250	139
681004	16G	160mm	1.7mm	Grey	25/250	128
681006	14G	160mm	2.0mm	Orange	25/250	206



## Careflow™ Central Venous Catheters

### Single Lumen without Extension

Sterile, single use

- Careflow™ is a range of paediatric and adult polyurethane central venous catheters designed for catheterisation via the Seldinger technique.
- Range of sets contains a Nitinol guidewire and the Venaguide™ Seldinger wire-advancing device facilitating single-handed guidewire insertion.
- Tapered atraumatic catheter tip designed to reduce the risk of venous damage while improving catheter insertion.
- The streamlined junction hub enables ease of catheter suture and comfortable positioning on the patient's skin.
- Careflow™ catheters offer 1cm and 5cm interval depth markings to facilitate catheter placement and clear lumen size and hub colour coding indication.
- Floswitch® and Floswitch® Introducer Catheter options available throughout range.
- Pressure rated with a maximum pressure tolerance of 45 psi.

#### CAREFLOW™ SINGLE LUMEN SETS WITHOUT EXTENSION

CODE WITHOUT FLOSWITCH®	CODE WITH FLOSWITCH®	EXTERNAL DIAMETER	LENGTH	CANNULA INTRODUCER		FLOSWITCH® INTRODUCER		NEEDLE INTRODUCER		GUIDEWIRE OD & LENGTH	SECONDARY FIXATION (SFD)	BOX/CASE CONTENT (UNITS)	FLOW RATE (ML/MIN)
				GAUGE	LENGTH	GAUGE	LENGTH	GAUGE	LENGTH				
681614	681623	2.5Fr (22G)	100mm	N/A	N/A	20G	45mm	22G	40mm	0.5 x 350mm		10/100	10
681639	681640 <sup>≠</sup>	3Fr (20G)	150mm	N/A	N/A	20G	45mm	22G	40mm	0.5 x 350mm		10/100	16
681643	681644	3Fr (20G)	200mm	N/A	N/A	20G	45mm	22G	40mm	0.5 x 450mm		10/100	15
681649	681650	4Fr (18G)	200mm	N/A	N/A	18G	60mm	17G	70mm	0.6 x 450mm		10/100	36
681669	681670	5Fr (16G)	150mm	N/A	N/A	15G	70mm	17G	70mm	0.9 x 450mm	Yes	10/100	71
681672	681673	5Fr (16G)	200mm	N/A	N/A	15G	70mm	17G	70mm	0.9 x 450mm	Yes	10/100	63
681706	681707	7Fr (14G)	150mm	N/A	N/A	14G	70mm	17G	70mm	0.9 x 450mm	Yes	10/100	190
681709	681710	7Fr (14G)	200mm	N/A	N/A	14G	70mm	17G	70mm	0.9 x 450mm	Yes	10/100	136

#### PRODUCT CONTENTS

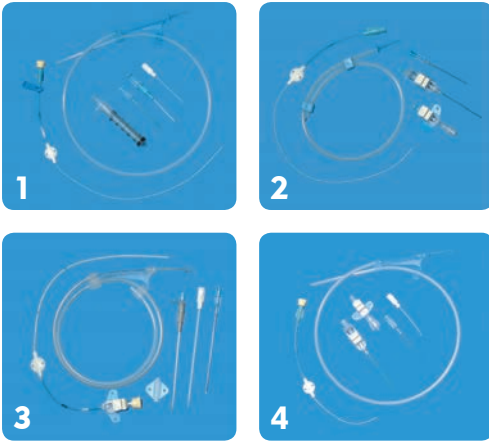
##### Single lumen Careflow™ with Floswitch® set contents:

Careflow™ Polyurethane catheter, steel needle introducer, Floswitch® overneedle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, Floswitch® revolving Luer-Lok™ system, luer lock plug and secondary fixation device (where shown).

##### Single lumen Careflow™ without Floswitch® set contents:

Careflow™ Polyurethane catheter, steel needle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire and secondary fixation device (where shown).

≠ Note: Part number 681640 contains 0.5 x 450mm guidewire.



# Careflow™ Central Venous Catheter Sets

Single Lumen  
Sterile, single use

CODE WITHOUT FLOSWITCH*	CODE WITH FLOSWITCH*	EXTERNAL DIAMETER	LENGTH	CANNULA INTRODUCER		FLOSWITCH* INTRODUCER		NEEDLE INTRODUCER		GUIDEWIRE OD & LENGTH	SECONDARY FIXATION (SFD)	BOX/CASE CONTENT (UNITS)	FLOW RATE (ML/MIN)
				GAUGE	LENGTH	GAUGE	LENGTH	GAUGE	LENGTH				
<b>1. CAREFLOW™ SINGLE LUMEN SETS WITH EXTENSION</b>													
681612		2.5Fr (22G)	60mm	22G	38mm	N/A	N/A	22G	40mm	0.5 x 350mm		5/50	12
681622		2.5Fr (22G)	100mm	22G	38mm	N/A	N/A	22G	40mm	0.5 x 350mm		5/50	10
681634		2.5Fr (22G)	200mm	22G	38mm	N/A	N/A	22G	40mm	0.5 x 650mm		5/50	7
681647		3Fr (20G)	150mm	20G	45mm	N/A	N/A	22G	40mm	0.5 x 450mm		5/50	18
681638		3Fr (20G)	200mm	20G	45mm	N/A	N/A	22G	40mm	0.5 x 650mm		5/50	15
681624		4Fr (18G)	60mm	20G	45mm	N/A	N/A	22G	40mm	0.5 x 350mm		5/50	47
681658		4Fr (18G)	200mm	20G	45mm	N/A	N/A	22G	40mm	0.5 x 650mm		5/50	35
681662		5Fr (16G)	150mm	16G	70mm	N/A	N/A	17G	70mm	0.9 x 450mm	Yes	5/50	65
681666		5Fr (16G)	200mm	16G	70mm	N/A	N/A	17G	70mm	0.9 x 700mm	Yes	5/50	60
681679		5Fr (16G)	300mm	16G	70mm	N/A	N/A	17G	70mm	0.9 x 700mm	Yes	5/50	46
681698		7Fr (14G)	150mm	16G	70mm	N/A	N/A	17G	70mm	0.9 x 450mm	Yes	5/50	159
681699		7Fr (14G)	200mm	16G	70mm	N/A	N/A	17G	70mm	0.9 x 700mm	Yes	5/50	149
681701		7Fr (14G)	300mm	16G	70mm	N/A	N/A	17G	70mm	0.9 x 700mm	Yes	5/50	136
<b>2. CAREFLOW™ SINGLE LUMEN SET WITH FLOSWITCH*</b>													
	681633	2.5Fr (22G)	200mm	N/A	N/A	20G	45mm	22G	40mm	0.5 x 450mm		10/100	7
<b>3. CAREFLOW™ SINGLE LUMEN WITH INTEGRAL FLOSWITCH*</b>													
	681660	5Fr (16G)	150mm	N/A	N/A	15G	70mm	17G	70mm	0.9 x 450mm	Yes	10/100	65
	681664	5Fr (16G)	200mm	N/A	N/A	15G	70mm	17G	70mm	0.9 x 700mm	Yes	10/100	60
	681678	5Fr (16G)	300mm	N/A	N/A	15G	70mm	17G	70mm	0.9 x 700mm	Yes	10/100	46
<b>4. CAREFLOW™ SINGLE LUMEN WITH EXTENSION AND FLOSWITCH*</b>													
	681615	2.5Fr (22G)	60mm	N/A	N/A	20G	45mm	22G	40mm	0.5 x 350mm		5/50	12
	681625	4Fr (18G)	60mm	N/A	N/A	20G	45mm	22G	40mm	0.5 x 350mm		5/50	47

## PRODUCT CONTENTS

### 1. Single lumen Careflow™ set with extension contents:

Careflow™ Polyurethane catheter with clear extension, extension slide clamp, cannula introducer, steel needle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, Luer-Lok™ plug, secondary fixation device (where shown) and 5ml syringe.

### 2. Single lumen Careflow™ set with Floswitch® contents:

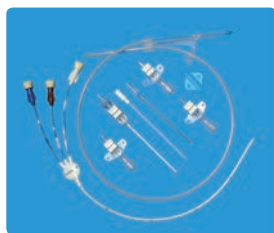
Careflow™ Polyurethane catheter with clear extension, steel needle introducer, Floswitch® overneedle introducer, PTFE coated soft-tip straight guidewire and Floswitch® revolving Luer-Lok system, luer lock plug.

### 3. Single lumen Careflow™ set with integral Floswitch® contents:

Careflow™ Polyurethane catheter with clear extension and integral Floswitch®, Floswitch® overneedle introducer, steel needle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, Luer-Lok plug and secondary fixation device.

### 4. Single lumen Careflow set with extension and Floswitch® contents:

Careflow™ Polyurethane catheter with clear extension, steel needle introducer, Floswitch® overneedle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, Floswitch® revolving Luer-Lok system and luer lock plug.



## Careflow™ Central Venous Catheter Sets

Double & Triple Lumen

Sterile, single use

### CAREFLOW™ DOUBLE LUMEN SETS

CODE WITHOUT FLOSWITCH®	CODE WITH FLOSWITCH®	EXTERNAL DIAMETER	LENGTH	CANNULA INTRODUCER		FLOSWITCH® INTRODUCER		NEEDLE INTRODUCER		GUIDEWIRE OD & LENGTH	SECONDARY FIXATION (SFD)	BOX/CASE CONTENT (UNITS)	FLOW RATE (ML/MIN)		
				GAUGE	LENGTH	GAUGE	LENGTH	GAUGE	LENGTH				D	M	P
681616	681617	4Fr (20G, 22G)	60mm	20G	45mm	20G	45mm	22G	40mm	0.5 x 350mm		5/50	20		8
681626	681627	4Fr (20G, 22G)	100mm	20G	45mm	20G	45mm	22G	40mm	0.5 x 350mm		5/50	19		6
681653	681652	4Fr (20G, 22G)	150mm	20G	45mm	20G	45mm	22G	40mm	0.5 x 450mm		5/50	16		4
681656 <sup>≠</sup>	681655	4Fr (20G, 22G)	200mm	20G	45mm	20G	45mm	22G	40mm	0.5 x 450mm		5/50	17		4
681619	681628	5Fr (18G, 20G)	60mm	18G	60mm	18G	60mm	17G	70mm	0.6 x 450mm	Yes	5/50	40		10
681683	681682	5Fr (18G, 20G)	150mm	18G	60mm	18G	60mm	17G	70mm	0.6 x 450mm	Yes	5/50	29		6
681687	681686	5Fr (18G, 20G)	200mm	18G	60mm	18G	60mm	17G	70mm	0.6 x 650mm	Yes	5/50	30		6
681703	681702	7Fr (16G, 18G)	150mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 450mm	Yes	5/50	74		24
681714	681713	7Fr (16G, 18G)	200mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	73		21
681718	681717	7Fr (16G, 18G)	300mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	61		19

### PRODUCT CONTENTS

#### Double lumen Careflow™ with Floswitch® set contents:

Careflow™ double lumen Polyurethane catheter with clear extensions, steel needle introducer, Floswitch® overneedle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, Floswitch® revolving Luer-Lok system, luer lock plugs and secondary fixation device (where shown).

#### Double lumen Careflow™ without Floswitch® set contents:

Careflow™ double lumen Polyurethane catheter with clear extensions, cannula introducer, steel needle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, extension slide clamps, 5ml syringe, luer lock plugs and secondary fixation device (where shown). <sup>≠</sup> Note: Part number 681656 contains 0.5 x 650mm guidewire.

### CAREFLOW™ TRIPLE LUMEN SETS

CODE WITHOUT FLOSWITCH®	CODE WITH FLOSWITCH®	EXTERNAL DIAMETER	LENGTH	CANNULA INTRODUCER		FLOSWITCH® INTRODUCER		NEEDLE INTRODUCER		GUIDEWIRE OD & LENGTH	SECONDARY FIXATION (SFD)	BOX/CASE CONTENT (UNITS)	FLOW RATE (ML/MIN)		
				GAUGE	LENGTH	GAUGE	LENGTH	GAUGE	LENGTH				D	M	P
681620	681629	5Fr (18G, 20G, 20G)	60mm	18G	60mm	18G	60mm	17G	70mm	0.6 x 450mm	Yes	5/50	40	10	12
681630	681618	5Fr (18G, 20G, 20G)	100mm	18G	60mm	18G	60mm	17G	70mm	0.6 x 450mm	Yes	5/50	32	7	8
681691	681690	5Fr (18G, 20G, 20G)	150mm	18G	60mm	18G	60mm	17G	70mm	0.6 x 450mm	Yes	5/50	29	5	6
681695	681694	5Fr (18G, 20G, 20G)	200mm	18G	60mm	18G	60mm	17G	70mm	0.6 x 650mm	Yes	5/50	26	5	5
681721	681720	7Fr (16G, 18G, 18G)	150mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 450mm	Yes	5/50	66	22	23
681725	681724	7Fr (16G, 18G, 18G)	200mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	59	16	17
681729	681728	7Fr (16G, 18G, 18G)	300mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	53	11	9

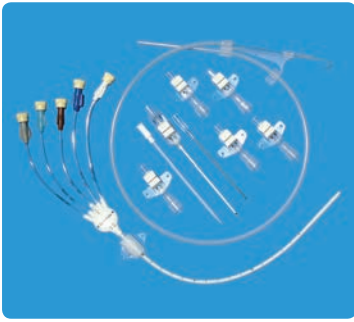
### PRODUCT CONTENTS

#### Triple lumen Careflow™ with Floswitch set contents:

Careflow™ triple lumen Polyurethane catheter with clear extensions, steel needle introducer, Floswitch® overneedle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, Floswitch® revolving Luer-Lok system, luer lock plugs and secondary fixation device.

#### Triple lumen Careflow™ without Floswitch set contents:

Careflow™ triple lumen Polyurethane catheter with clear extensions, cannula introducer, steel needle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, extension slide clamps, 5ml syringe, luer lock plugs and secondary fixation device.



## Careflow™ Central Venous Catheter Sets

### Quad & Quint Lumen

Sterile, single use

#### CAREFLOW™ QUAD LUMEN SETS

CODE WITHOUT FLOSWITCH®	CODE WITH FLOSWITCH®	EXTERNAL DIAMETER	LENGTH	CANNULA INTRODUCER		FLOSWITCH® INTRODUCER		NEEDLE INTRODUCER		GUIDEWIRE OD & LENGTH	BOX/CASE CONTENT (UNITS)	FLOW RATE (ML/MIN)				
				GAUGE	LENGTH	GAUGE	LENGTH	GAUGE	LENGTH			D	M1	M2	P1	P2
681731	681732	8.5Fr (14G, 16G, 16G, 18G)	150mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 450mm	5/50	64	82	57	20	
681733	681734	8.5Fr (14G, 16G, 16G, 18G)	200mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 700mm	5/50	58	76	45	19	

#### PRODUCT CONTENTS

##### Quad lumen Careflow™ with Floswitch® set contents:

Careflow™ quad lumen Polyurethane catheter with clear extensions, steel needle introducer, Floswitch® overneedle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, Floswitch® revolving Luer-Lok™ system, scalpel, luer lock plugs and secondary fixation device.

##### Quad lumen Careflow™ without Floswitch® set contents:

Careflow™ quad lumen Polyurethane catheter with clear extensions, cannula introducer, steel needle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, extension slide clamps, 5ml syringe, scalpel, luer lock plugs and secondary fixation device.

#### CAREFLOW™ QUINT LUMEN SETS

CODE WITHOUT FLOSWITCH®	CODE WITH FLOSWITCH®	EXTERNAL DIAMETER	LENGTH	CANNULA INTRODUCER		FLOSWITCH® INTRODUCER		NEEDLE INTRODUCER		GUIDEWIRE OD & LENGTH	BOX/CASE CONTENT (UNITS)	FLOW RATE (ML/MIN)				
				GAUGE	LENGTH	GAUGE	LENGTH	GAUGE	LENGTH			D	M1	M2	P1	P2
681735	681736	9.5Fr (14G, 16G, 16G, 18G, 18G)	150mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 450mm	5/50	73	61	65	19	21
681737	681738	9.5Fr (14G, 16G, 16G, 18G, 18G)	200mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 700mm	5/50	68	58	60	13	12

#### PRODUCT CONTENTS

##### Quint lumen Careflow™ with Floswitch® set contents:

Careflow™ quint lumen Polyurethane catheter with clear extensions, steel needle introducer, Floswitch® overneedle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, Floswitch® revolving Luer-Lok system, scalpel, luer lock plugs and secondary fixation device.

##### Quint lumen Careflow™ without Floswitch® set contents:

Careflow™ quint lumen Polyurethane catheter with clear extensions, cannula introducer, steel needle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, extension slide clamps, 5ml syringe, scalpel, luer lock plugs and secondary fixation device.

## CENTRAL VENOUS CATHETER SETS



# Careflow™ Central Venous Catheter Sets with Guiding Syringe

Single & Multi Lumen

Sterile, single use

PRODUCT CODE	EXTERNAL DIAMETER	LENGTH	CANNULA INTRODUCER		NEEDLE INTRODUCER		GUIDEWIRE OD & LENGTH	SECONDARY FIXATION DEVICE (SFD)	BOX/CASE CONTENT (UNITS)	FLOW RATE (ML/MIN)					WITH GUIDING SYRINGE
			GAUGE	LENGTH	GAUGE	LENGTH				D	M1	M2	P1	P2	
<b>CAREFLOW™ SINGLE LUMEN SETS WITH GUIDING SYRINGE</b>															
681788	5Fr (16G)	150mm	16G	70mm	17G	70mm	0.9 x 450mm	Yes	5/50	65					Yes
681789	5Fr (16G)	200mm	16G	70mm	17G	70mm	0.9 x 600mm	Yes	5/50	60					Yes
681790	5Fr (16G)	300mm	16G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	46					Yes
681791	7Fr (14G)	150mm	16G	70mm	17G	70mm	0.9 x 500mm	Yes	5/50	159					Yes
681792	7Fr (14G)	200mm	16G	70mm	17G	70mm	0.9 x 600mm	Yes	5/50	149					Yes
681793	7Fr (14G)	300mm	16G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	136					Yes
<b>CAREFLOW™ DOUBLE LUMEN SETS WITH GUIDING SYRINGE</b>															
681781	5Fr (18G, 20G)	60mm	18G	60mm	17G	70mm	0.6 x 450mm	Yes	5/50	40			10		Yes
681782	5Fr (18G, 20G)	150mm	18G	60mm	17G	70mm	0.6 x 450mm	Yes	5/50	29			6		Yes
681783	5Fr (18G, 20G)	200mm	18G	60mm	17G	70mm	0.6 x 650mm	Yes	5/50	30			6		Yes
681771	7Fr (16G, 18G)	150mm	16G	70mm	17G	70mm	0.9 x 500mm	Yes	5/50	74			24		Yes
681772	7Fr (16G, 18G)	200mm	16G	70mm	17G	70mm	0.9 x 600mm	Yes	5/50	73			21		Yes
681773	7Fr (16G, 18G)	300mm	16G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	61			19		Yes
<b>CAREFLOW™ TRIPLE LUMEN SETS WITH GUIDING SYRINGE</b>															
681784	5Fr (18G, 20G, 20G)	60mm	18G	60mm	17G	70mm	0.6 x 450mm	Yes	5/50	40	10		12		Yes
681785	5Fr (18G, 20G, 20G)	100mm	18G	60mm	17G	70mm	0.6 x 450mm	Yes	5/50	32	7		8		Yes
681786	5Fr (18G, 20G, 20G)	150mm	18G	60mm	17G	70mm	0.6 x 450mm	Yes	5/50	29	5		6		Yes
681787	5Fr (18G, 20G, 20G)	200mm	18G	60mm	17G	70mm	0.6 x 650mm	Yes	5/50	26	5		5		Yes
681774	7Fr (16G, 18G, 18G)	150mm	16G	70mm	17G	70mm	0.9 x 500mm	Yes	5/50	66	22		23		Yes
681775	7Fr (16G, 18G, 18G)	200mm	16G	70mm	17G	70mm	0.9 x 600mm	Yes	5/50	59	16		17		Yes
681776	7Fr (16G, 18G, 18G)	300mm	16G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	53	11		9		Yes
<b>CAREFLOW™ QUAD LUMEN SETS WITH GUIDING SYRINGE</b>															
681777	8.5Fr (14G, 16G, 16G, 18G)	150mm	16G	70mm	17G	70mm	0.9 x 500mm	Yes	5/50	64	82	57	20		Yes
681778	8.5Fr (14G, 16G, 16G, 18G)	200mm	16G	70mm	17G	70mm	0.9 x 600mm	Yes	5/50	58	76	45	19		Yes
<b>CAREFLOW™ QUINT LUMEN SETS WITH GUIDING SYRINGE</b>															
681779	9.5Fr (14G, 16G, 16G, 18G, 18G)	150mm	16G	70mm	17G	70mm	0.9 x 500mm	Yes	5/50	73	61	65	19	21	Yes
681780	9.5Fr (14G, 16G, 16G, 18G, 18G)	200mm	16G	70mm	17G	70mm	0.9 x 600mm	Yes	5/50	68	58	60	13	12	Yes

### PRODUCT CONTENTS

#### Single and Multi Lumen Careflow™ with Guiding Syringe set contents:

Careflow™ Polyurethane catheter with clear extensions and pinch clamps, cannula introducer, steel needle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, 5ml Guiding Syringe, luer lock plugs and secondary fixation device.





## Hydrocath Assure™ Central Venous Catheter Sets

Antimicrobial-Coated  
Sterile, single use

Hydrocath Assure™ is a range of single, double and triple lumen polyurethane central venous catheters, designed for catheterisation by the Seldinger technique.

Every catheter is coated with a hydrophilic substance activated by biological fluids, and is designed to facilitate catheter insertion.

In addition, the Hydromer hydrophilic matrix is impregnated with the antimicrobial agent Benzalkonium Chloride (BZC).

CODE WITHOUT FLOSWITCH®	CODE WITH FLOSWITCH®	EXTERNAL DIAMETER	LENGTH	CANNULA INTRODUCER		FLOSWITCH® INTRODUCER		NEEDLE INTRODUCER		GUIDEWIRE OD & LENGTH	SECONDARY FIXATION (SFD)	BOX/CASE CONTENT (UNITS)	FLOW RATE (ML/MIN)		
				GAUGE	LENGTH	GAUGE	LENGTH	GAUGE	LENGTH				D	M2	P2
<b>HYDROCATH ASSURE™ SINGLE LUMEN SETS</b>															
681161		5Fr (16G)	200mm	16G	70mm	N/A	N/A	17G	70mm	0.9 x 700mm		5/50	56		
<b>HYDROCATH ASSURE™ DOUBLE LUMEN SETS</b>															
681152	681150	7Fr (16G, 18G)	200mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	69		22
681153	681151	7Fr (16G, 18G)	300mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	61		17
<b>HYDROCATH ASSURE™ TRIPLE LUMEN SETS</b>															
681157	681154	7Fr (16G, 18G, 18G)	150mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 450mm	Yes	5/50	68	22	24
681158	681155	7Fr (16G, 18G, 18G)	200mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	58	18	19
681159	681156	7Fr (16G, 18G, 18G)	300mm	16G	70mm	15G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	50	13	13

### PRODUCT CONTENTS

#### All of the above sets contain:

All sets without Floswitch® contain a cannula introducer, needle introducer, sliding clamps and 5ml syringe.

All Floswitch® sets include an Floswitch® revolving Luer-Lok™ system, Floswitch® cannula introducer and needle introducer.

Moss MA, Tebbs SE, Faroqui MH, Herbst T, Isaac JL, Brown J, Elliott TSJ, "A central venous catheter coated with Benzalkonium Chloride for the prevention of catheter-related microbial colonisation". Eur J Anaesth 2000, 17, 680-687.



## Hydrocath Assure™ Central Venous Catheter Sets with Guiding Syringe

Antimicrobial-Coated

Sterile, single use

Hydrocath Assure™ central venous catheter sets are also available with a guiding syringe, designed for catheterisation by the Seldinger technique.

Every catheter is coated with a hydrophilic substance activated by biological fluids, and is designed to facilitate catheter insertion.

In addition, the Hydromer hydrophilic matrix is impregnated with the antimicrobial agent Benzalkonium Chloride (BZC).

PRODUCT CODE	EXTERNAL DIAMETER	LENGTH	CANNULA INTRODUCER		NEEDLE INTRODUCER		GUIDEWIRE OD & LENGTH	SECONDARY FIXATION (SFD)	BOX/CASE CONTENT (UNITS)	FLOW RATE (ML/MIN)			WITH GUIDING SYRINGE
			GAUGE	LENGTH	GAUGE	LENGTH				D	M2	P2	
<b>HYDROCATH ASSURE™ DOUBLE LUMEN SETS WITH GUIDING SYRINGE</b>													
681924	7Fr (16G, 18G)	150mm	16G	70mm	17G	70mm	0.9 x 500mm	Yes	5/50	71		23	Yes
681925	7Fr (16G, 18G)	200mm	16G	70mm	17G	70mm	0.9 x 600mm	Yes	5/50	69		22	Yes
681926	7Fr (16G, 18G)	300mm	16G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	61		17	Yes
<b>HYDROCATH ASSURE™ TRIPLE LUMEN SETS WITH GUIDING SYRINGE</b>													
681934	7Fr (16G, 18G, 18G)	150mm	16G	70mm	17G	70mm	0.9 x 500mm	Yes	5/50	68	22	24	Yes
681935	7Fr (16G, 18G, 18G)	200mm	16G	70mm	17G	70mm	0.9 x 600mm	Yes	5/50	58	18	19	Yes
681936	7Fr (16G, 18G, 18G)	300mm	16G	70mm	17G	70mm	0.9 x 700mm	Yes	5/50	50	13	13	Yes

### PRODUCT CONTENTS

**Multi Lumen Hydrocath Assure™ with Guiding Syringe set contents:**

Hydrocath Assure™ BZC impregnated and hydrophilic coated Polyurethane catheter with clear extensions and pinch clamps, cannula introducer, steel needle introducer, vessel dilator, Venaguide™ Seldinger wire-advancing device with Nitinol guidewire, 5ml Guiding Syringe, luer lock plugs and secondary fixation device.

Moss MA, Tebbs SE, Faroqui MH, Herbst T, Isaac JL, Brown J, Elliott TSJ, "A central venous catheter coated with Benzalkonium Chloride for the prevention of catheter-related microbial colonisation". Eur J Anaesth 2000, 17, 680-687.