



# Critical Care & Haemodynamic Monitoring

## Catalogue 2004

**BD (Becton, Dickinson and Company) is a medical technology company that serves healthcare institutions, life science researchers, clinical laboratories, industry and the general public. BD manufactures and sells a broad range of medical supplies, devices, laboratory equipment and diagnostic products.**

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## BD Connecta Floswitch™

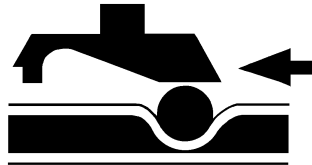
Sterile, single use

Description	Box/Case Contents (Units)	Item Number
BD Connecta Floswitch™	25/250	681033

BD Connecta Floswitch™ acts as an ON/OFF device on infusion lines, stopping the flow in order to carry out line procedures in closed circuit. Reduces the risk of patient emboli and potential contamination of hospital staff by exposure to blood.

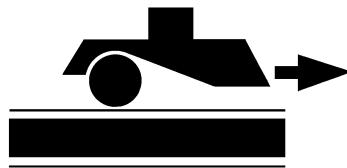
The Floswitch™ therefore considerably increases safety.

### Floswitch™ closed



System patented. 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



BD Connecta Floswitch™ can be connected to any catheter fitted with a Luer connector. Winged to facilitate attachment.

Sterilisation method :

- Ethylene oxide

Shelf life :

- 5 years

Class IIa according to European Medical Devices Directive 93/42/EEC



## BD Secalon-T™

Sterile, single use

Catheter Gauge	Catheter Length (mm)	Catheter Ext. Diameter (mm)	Colour code	Box/Case Contents (Units)	Item Number
18G	90	1.2	Green	25/250	681000
16G	130	1.7	Grey	25/250	681002
16G	160	1.7	Grey	25/250	681004
14G	160	2.0	Orange	25/250	681006

- BD Secalon-T™ emergency catheter designed for high flow rate infusions. Incorporating a Floswitch™, BD 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

Sterilisation method:

- Ethylene oxide.

Shelf life:

- 5 years.

Class III according to European Medical Devices Directive 93/42/EEC

## BD Secalon™ Seldy

Sterile, single use



Catheter Gauge	Catheter Length mm	Cannula Introducer mm	Needle Introducer mm	Guidewire OD & Length mm	Box/Case Contents (Units)	Item Number
16G	200		17G x 70	0.9 x 500	10/100	681014
16G	420	16G x 60	17G x 70	0.9 x 650	10/100	681011

- BD Secalon™ Seldy - a "Seldinger" central venous catheter made of polyurethane and fitted with a Floswitch™.
- The 681014 set contains a needle type introducer with "J" type metal guidewire.
- The 681011 set contains a cannula type and needle type introducer and a soft-tip "Straight" metal guidewire.

Sterilisation method:

- Ethylene oxide

Shelf life:

- 5 years

Class III according to European Medical Devices Directive 93/42/EEC



## BD Careflow™ Single Lumen Central Venous Catheters

Sterile, single use

BD Careflow™ is a range of paediatric and adult polyurethane central venous catheters designed for catheterisation by the Seldinger technique.

Available in single, double, triple, quadruple and quint lumen formats, this range of sets contains a steel guidewire and the VenaGuide™ Seldinger wire advancing device facilitating single handed guidewire insertion.

BD Careflow™ catheters are latex free with tapered atraumatic catheter tip reducing the risk of venous damage and improving catheter insertion.

The streamlined junction hub enables ease of catheter suture and comfortable positioning on the patients skin.

BD Careflow™ catheters offer 1cm and 5cm interval depth markings to facilitate catheter placement and clear lumen size and hub colour coding indication.

BD Floswitch™ and Floswitch™ introducer catheter options available throughout range.

Catheter External Diameter	Catheter Length (mm)	Cannula Introducer Gauge	Cannula Introducer Length (mm)	Floswitch™ Introducer Gauge	Floswitch™ Introducer Length (mm)	Needle Introducer Gauge	Needle Introducer Length (mm)	Guidewire OD & Length(mm)	Box/Case Contents (Units)	Flow Rate (ml/min) D	Code w/o Floswitch™	Code with Floswitch™
<b>BD CAREFLOW™ SINGLE LUMEN SETS WITHOUT EXTENSION</b>												
2.5Fr (22G)	100	N/A	N/A	20G	45	22G	40	0.5 x 350	10/100	10	681614	681623
3Fr (20G)	150	N/A	N/A	20G	45	20G	40	0.5 x 350	10/100	16	681639	681640
3Fr (20G)	200	N/A	N/A	20G	45	20G	40	0.5 x 450	10/100	15	681643	681644
4Fr (18G)	200	N/A	N/A	18G	60	17G	70	0.6 x 450	10/100	36	681649	681650
5Fr (16G)	150	N/A	N/A	15G	70	17G	70	0.9 x 450	10/100	71	681669	681670
5Fr (16G)	200	N/A	N/A	15G	70	17G	70	0.9 x 450	10/100	63	681672	681673
7Fr (14G)	150	N/A	N/A	14G	70	17G	70	0.9 x 450	10/100	190	681706	681707
7Fr (14G)	200	N/A	N/A	14G	70	17G	70	0.9 x 450	10/100	136	681709	681710

- Single lumen BD Careflow™ with Floswitch™ set contents: BD Careflow™ Polyurethane catheter, steel needle introducer, Floswitch™ overneedle introducer, vessel dilator, VenaGuide™ Seldinger wire advancing device, Floswitch™ revolving 'Luer Lok™' system, Luer Lock plug and secondary fixation device.
- Single lumen BD Careflow™ without Floswitch™ set contents: BD Careflow™ Polyurethane catheter, steel needle introducer, VenaGuide™ Seldinger wire advancing device and secondary fixation device.

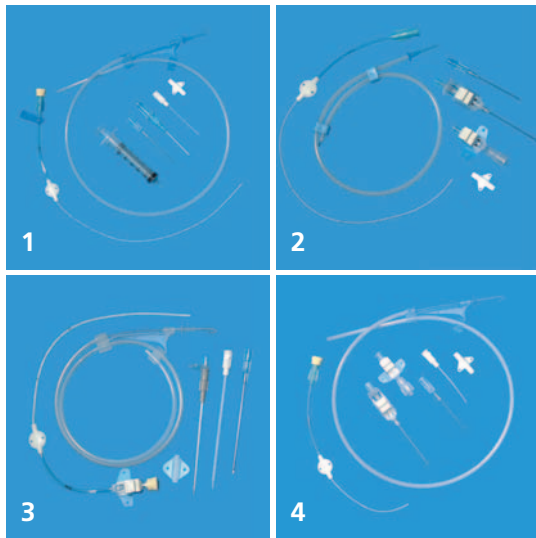
Sterilisation method:

- Ethylene oxide

Shelf life:

- 5 years

Class III according to European Medical Devices Directive 93/42/EEC



## BD Careflow™ Single Lumen Central Venous Catheter Sets

Sterile, single use

Central Venous Catheters

Catheter External Diameter	Catheter Length (mm)	Cannula Introducer Gauge	Cannula Length (mm)	Floswitch™ Introducer Gauge	Floswitch™ Introducer Length (mm)	Needle Introducer Gauge	Needle Introducer Length (mm)	Guidewire OD & Length(mm)	Box/Case Contents (Units)	Flow Rate (ml/min) D	Code w/o Floswitch™	Code with Floswitch™
<b>1. BD CAREFLOW™ SINGLE LUMEN SETS WITH EXTENSION</b>												
2.5Fr (22G)	60	22G	38	N/A	N/A	22G	40	0.5 x 350	5/50	12	681612	
2.5Fr (22G)	100	22G	38	N/A	N/A	22G	40	0.5 x 350	5/50	10	681622	
2.5Fr (22G)	200	22G	38	N/A	N/A	22G	40	0.5 x 650	5/50	7	681634	
3Fr (20G)	150	20G	45	N/A	N/A	22G	40	0.5 x 450	5/50	18	681647	
3Fr (20G)	200	20G	45	N/A	N/A	22G	40	0.5 x 650	5/50	15	681638	
4Fr (18G)	60	20G	45	N/A	N/A	20G	40	0.5 x 350	5/50	47	681624	
4Fr (18G)	200	20G	45	N/A	N/A	20G	40	0.5 x 650	5/50	35	681658	
5Fr (16G)	150	16G	70	N/A	N/A	17G	70	0.9 x 450	5/50	65	681662	
5Fr (16G)	200	16G	70	N/A	N/A	17G	70	0.9 x 700	5/50	60	681666	
5Fr (16G)	300	16G	70	N/A	N/A	17G	70	0.9 x 700	5/50	46	681679	
7Fr (14G)	150	16G	70	N/A	N/A	17G	70	0.9 x 450	5/50	159	681698	
7Fr (14G)	200	16G	70	N/A	N/A	17G	70	0.9 x 700	5/50	149	681699	
7Fr (14G)	300	16G	70	N/A	N/A	17G	70	0.9 x 700	5/50	136	681701	
<b>2. BD CAREFLOW™ SINGLE LUMEN MIDLINE WITH FLOSWITCH™</b>												
2.5Fr (22G)	200	N/A	N/A	20G	45	22G	40	0.5 x 450	10/100	7		681633
<b>3. BD CAREFLOW™ SINGLE LUMEN WITH INTEGRAL FLOSWITCH™</b>												
5Fr (16G)	150	16G	70	N/A	N/A	17G	70	0.9 x 450	10/100	65		681660
5Fr (16G)	200	16G	70	N/A	N/A	17G	70	0.9 x 700	10/100	60		681664
5Fr (16G)	300	16G	70	N/A	N/A	17G	70	0.9 x 700	10/100	46		681678
<b>4. BD CAREFLOW™ SINGLE LUMEN WITH EXTENSION AND FLOSWITCH™</b>												
2.5Fr (22G)	60	N/A	N/A	20G	45	22G	40	0.5 x 350	5/50	12		681615
4Fr (18G)	60	N/A	N/A	20G	45	20G	40	0.5 x 350	5/50	47		681625

**1. Single lumen BD Careflow™ set with extension contents\*†:**

BD Careflow™ Polyurethane catheter with clear extension, extension slide clamp, cannula introducer, steel needle introducer, vessel dilator, VenaGuide™ Seldinger wire advancing device, Luer-Lok™ plug, secondary fixation device and 5ml syringe.

**2. Single lumen BD Careflow™ MidLine set with Floswitch™ contents\*:**

BD Careflow™ Polyurethane catheter with clear extension, steel needle introducer, Floswitch™ overneedle introducer, PTFE coated soft-tip straight guidewire, Floswitch™ revolving Luer-Lok™ system, Luer Lock plug and secondary fixation device.

**3. Single lumen BD Careflow™ set with integral Floswitch™ contents\*:**

BD Careflow™ Polyurethane catheter with clear extension and integral Floswitch™, cannula introducer, steel needle introducer, vessel dilator, VenaGuide™ Seldinger wire advancing device, Luer-Lok™ plug and secondary fixation device.

**4. Single lumen BD Careflow™ set with extension and Floswitch™ contents\*†:**

BD Careflow™ Polyurethane catheter with clear extension, steel needle introducer, Floswitch™ overneedle introducer, vessel dilator, VenaGuide™ Seldinger wire advancing device, Floswitch™ revolving Luer-Lok™ system, Luer Lock plug and secondary fixation device.

\* Sterilisation method:

- Ethylene oxide

† • Sterile double tray packaging for increased safety

Shelf life:

- 5 years (\* except 681660, 681664 & 681678 which have a 3 year shelf life.)

Class III according to European Medical Devices Directive 93/42/EEC



## BD Careflow™ Double & Triple Lumen Central Venous Catheter Sets

Sterile, single use

Catheter External Diameter	Catheter Length (mm)	Cannula Introducer Gauge	Cannula Length(mm)	Floswitch™ Introducer		Needle Introducer Gauge	Needle Length(mm)	Guidewire OD & Length(mm)	Box/Case Contents (Units)	Flow Rate (ml/min)					Code w/o Floswitch™	Code with Floswitch™
				Gauge	Length(mm)					D	M1	M2	P1	P2		

### BD CAREFLOW™ DOUBLE LUMEN SETS

4Fr (20G,22G)	60	20G	45	20G	45	20G	40	0.5 x 350	5/50	20		8			681616	681617
4Fr (20G,22G)	100	20G	45	20G	45	20G	40	0.5 x 350	5/50	19		6			681626	681627
4Fr (20G,22G)	150	20G	45	20G	45	20G	40	0.5 x 450	5/50	16		4			681653	681652
4Fr (20G,22G)	200	20G	45	20G	45	20G	40	0.5 x 450	5/50	17		4			681656	681655
5Fr (18G,20G)	60	18G	60	18G	60	17G	70	0.6 x 450	5/50	40		10			681619	681628
5Fr (18G,20G)	150	18G	60	18G	60	17G	70	0.6 x 450	5/50	29		6			681683	681682
5Fr (18G,20G)	200	18G	60	18G	60	17G	70	0.6 x 650	5/50	30		6			681687	681686
7Fr (16G,18G)	150	16G	70	15G	70	17G	70	0.9 x 450	5/50	74		24			681703	681702
7Fr (16G,18G)	200	16G	70	15G	70	17G	70	0.9 x 700	5/50	73		21			681714	681713
7Fr (16G,18G)	300	16G	70	15G	70	17G	70	0.9 x 700	5/50	61		19			681718	681717

- Double lumen BD Careflow™ with Floswitch™ set contents: BD Careflow™ double lumen Polyurethane catheter with clear extensions, steel needle introducer, Floswitch™ overneedle introducer, vessel dilator, VenaGuide™ Seldinger wire advancing device, Floswitch™ revolving 'Luer Lok™' system, Luer Lock plugs and secondary fixation device.  
Sterile double tray packaging for increased safety.
- Double lumen BD Careflow™ without Floswitch™ set contents: BD Careflow™ double lumen Polyurethane catheter with clear extensions, cannula introducer, steel needle introducer, VenaGuide™ Seldinger wire advancing device, extension slide clamps, 5ml syringe, Luer Lock plugs and secondary fixation device.  
Sterile double tray packaging for increased safety.

Sterilisation method:

- Ethylene oxide

Shelf life:

- 5 years

Class III according to European Medical Devices Directive 93/42/EEC

Catheter External Diameter	Catheter Length (mm)	Cannula Introducer Gauge	Cannula Length(mm)	Floswitch™ Introducer		Needle Introducer Gauge	Needle Length(mm)	Guidewire OD & Length(mm)	Box/Case Contents (Units)	Flow Rate (ml/min)					Code w/o Floswitch™	Code with Floswitch™
				Gauge	Length(mm)					D	M1	M2	P1	P2		

### BD CAREFLOW™ TRIPLE LUMEN SETS

5Fr (18G,20G,20G)	60	18G	60	18G	60	17G	70	0.6 x 450	5/50	40	10	12			681620	681629
5Fr (18G,20G,20G)	100	18G	60	18G	60	17G	70	0.6 x 450	5/50	32	7	8			681630	681618
5Fr (18G,20G,20G)	150	18G	60	18G	60	17G	70	0.6 x 450	5/50	29	5	6			681691	681690
5Fr (18G,20G,20G)	200	18G	60	18G	60	17G	70	0.6 x 650	5/50	26	5	5			681695	681694
7Fr (16G,18G,18G)	150	16G	70	15G	70	17G	70	0.9 x 450	5/50	66	22	23			681721	681720
7Fr (16G,18G,18G)	200	16G	70	15G	70	17G	70	0.9 x 700	5/50	59	16	17			681725	681724
7Fr (16G,18G,18G)	300	16G	70	15G	70	17G	70	0.9 x 700	5/50	53	11	9			681729	681728

- Triple lumen BD Careflow™ with Floswitch™ set contents: BD Careflow™ triple lumen Polyurethane catheter with clear extensions, steel needle introducer, Floswitch™ overneedle introducer, vessel dilator, VenaGuide™ Seldinger wire advancing device, Floswitch™ revolving 'Luer Lok™' system, Luer Lock plugs and secondary fixation device.  
Sterile double tray packaging for increased safety.
- Triple lumen BD Careflow™ without Floswitch™ set contents: BD Careflow™ triple lumen Polyurethane catheter with clear extensions, cannula introducer, steel needle introducer, VenaGuide™ Seldinger wire advancing device, extension slide clamps, 5ml syringe, Luer Lock plugs and secondary fixation device.  
Sterile double tray packaging for increased safety.

Sterilisation method:

- Ethylene oxide

Shelf life:

- 5 years

Class III according to European Medical Devices Directive 93/42/EEC



## BD Careflow™ Quad & Quint Lumen Central Venous Catheter Sets

Sterile, single use

Central Venous Catheters

Catheter External Diameter	Catheter Length (mm)	Cannula Introducer Gauge Length(mm)	Floswitch™ Introducer Gauge Length(mm)	Needle Introducer Gauge Length(mm)	Guidewire OD & Length(mm)	Box/Case Contents (Units)	Flow Rate (ml/min) D M1 M2 P1 P2	Code w/o Floswitch™	Code with Floswitch™
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### BD CAREFLOW™ QUAD LUMEN SETS

8.5Fr (14G,16G,16G,18G)	150	16G	70	15G	70	17G	70	0.9 x 450	5/50	64	82	57	20	681731	681732
8.5Fr (14G,16G,16G,18G)	200	16G	70	15G	70	17G	70	0.9 x 700	5/50	58	76	45	19	681733	681734

- Quad lumen BD Careflow™ with Floswitch™ set contents:  
BD Careflow™ quad lumen Polyurethane catheter with clear extensions, steel needle introducer, Floswitch™ overneedle introducer, vessel dilator, VenaGuide™ Seldinger wire advancing device, Floswitch™ revolving 'Luer Lok™' system, scalpel, Luer Lock plugs and secondary fixation device.  
Sterile double tray packaging for increased safety.
- Quad lumen BD Careflow™ without Floswitch™ set contents:  
BD Careflow™ quad lumen Polyurethane catheter with clear extensions, cannula introducer, steel needle introducer, VenaGuide™ Seldinger wire advancing device, extension slide clamps, 5ml syringe, scalpel, Luer Lock plugs and secondary fixation device.  
Sterile double tray packaging for increased safety.

Sterilisation method:

- Ethylene oxide

Shelf life:

- 5 years

Class III according to European Medical Devices Directive 93/42/EEC

Catheter External Diameter	Catheter Length (mm)	Cannula Introducer Gauge Length(mm)	Floswitch™ Introducer Gauge Length(mm)	Needle Introducer Gauge Length(mm)	Guidewire OD & Length(mm)	Box/Case Contents (Units)	Flow Rate (ml/min) D M1 M2 P1 P2	Code w/o Floswitch™	Code with Floswitch™
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### BD CAREFLOW™ QUINT LUMEN SETS

9.5Fr (14G,16G,16G,18G,18G)	150	16G	70	15G	70	17G	70	0.9 x 450	5/50	73	61	65	19	21	681735	681736
9.5Fr (14G,16G,16G,18G,18G)	200	16G	70	15G	70	17G	70	0.9 x 700	5/50	68	58	60	13	12	681737	681738

- Quint lumen BD Careflow™ with Floswitch™ set contents:  
BD Careflow™ quint lumen Polyurethane catheter with clear extensions, steel needle introducer, Floswitch™ overneedle introducer, vessel dilator, VenaGuide™ Seldinger wire advancing device, Floswitch™ revolving 'Luer Lok™' system, scalpel, Luer Lock plugs and secondary fixation device.  
Sterile double tray packaging for increased safety.
- Quint lumen BD Careflow™ without Floswitch™ set contents:  
BD Careflow™ quint lumen Polyurethane catheter with clear extensions, cannula introducer, steel needle introducer, VenaGuide™ Seldinger wire advancing device, extension slide clamps, 5ml syringe, scalpel, injection caps and secondary fixation device.  
Sterile double tray packaging for increased safety.

Sterilisation method:

- Ethylene oxide

Shelf life:

- 5 years

Class III according to European Medical Devices Directive 93/42/EEC



## BD Hydrocath Assure™ Antimicrobial Coated Central Venous Catheters

Sterile, single use

An innovative approach to risk management:

- BD 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, which facilitates the insertion of the catheter and reduces the potential adhesion of bacteria or formation of thrombus.

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

- BZC is bactericidal against a broad spectrum of micro-organisms which are known to colonise central venous catheters.

- BD Hydrocath Assure™ has been proven to reduce bacterial colonisation of catheters in critically ill patients.

Catheter External Diameter	Catheter Length (mm)	Cannula Introducer Gauge	Cannula Length(mm)	Floswitch™ Introducer Gauge	Floswitch™ Introducer Length(mm)	Needle Introducer Gauge	Needle Introducer Length(mm)	Guidewire OD & Length(mm)	Box/Case Contents (Units)	Flow Rate (ml/min) D M P	Code w/o Floswitch™	Code with Floswitch™
<b>BD HYDROCATH ASSURE™ SINGLE LUMEN SETS</b>												
5Fr (16G)	200	16G	70			17G	70	0.9 x 700	5/50	56	681161	
<b>BD HYDROCATH ASSURE™ DOUBLE LUMEN SETS</b>												
7Fr (16+18)	200	16G	70	15G	70	17G	70	0.9 x 700	5/50	69	22	681152 681150
7Fr (16+18)	300	16G	70	15G	70	17G	70	0.9 x 700	5/50	61	17	681153 681151
<b>BD HYDROCATH ASSURE™ TRIPLE LUMEN SETS</b>												
7Fr (16,18+18)	150	16G	70	15G	70	17G	70	0.9 x 450	5/50	68	22	24 681157 681154
7Fr (16,18+18)	200	16G	70	15G	70	17G	70	0.9 x 700	5/50	58	18	19 681158 681155
7Fr (16,18+18)	300	16G	70	15G	70	17G	70	0.9 x 700	5/50	50	13	13 681159 681156

### BD Hydrocath Assure™ Set Componentry

All of the above sets contain:

BZC impregnated and hydrophilic coated polyurethane catheter, VenaGuide™ Seldinger wire advancing system, needle introducer, vein dilator and secondary fixation device.

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

\*\* All Floswitch™ sets include RLL Floswitch™, Floswitch™ cannula introducer and needle introducer.

Sterilisation method:

- Ethylene oxide

Shelf life:

- 2 years

Class III according to European Medical Devices Directive 93/42/EEC

\* Reference: Moss MA, Tebbs SE, Farouqi 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.



## Arterial Cannula with Floswitch™

Sterile, single use

Gauge	Length (mm)	Box/Case Contents (Units)	Item Number
20G with Floswitch™	45	25/500	682245

- Catheter designed for insertion into peripheral arteries, for the determination of blood gas estimations or monitoring blood pressure.
- Floswitch™ on/off device prevents back-flow thereby reducing the risk of air emboli and potential contamination of hospital staff by exposure to blood.
- 'Venflon-like' insertion characteristics.
- Wings to facilitate fixation.

Sterilisation method:

- Ethylene oxide.

Shelf life:

- 5 years.

Class IIa according to European Medical Devices Directive 93/42/EEC

## BD Careflow™ Arterial Catheters

Sterile, single use



Description	Catheter External Diameter	Length (mm)	Needle Introducer		Guidewire OD & Length (mm)	Box/Case Contents (Units)	Priming Volume (ml)	Item Number
			Gauge	Length (mm)				
Radial artery set	3Fr (20G)	60	20	40	0.5 x 250	10/100	0.08	681646
Radial artery set	2.5Fr (22G)	60	22	40	0.5 x 250	10/100	0.08	681631
Femoral artery set	3Fr (20G)	200	20	40	0.5 x 450	10/100	0.14	681642
Femoral artery set	4Fr (18G)	200	17	70	0.6 x 450	10/100	0.24	681648

- BD Careflow™ Polyurethane catheters are designed for access to radial or femoral arteries, for the determination of blood parameters or monitoring blood pressure.
- Catheterisation trays contain an introducer needle, metal guidewire and Luer Lok plug.

Sterilisation method:

- Ethylene oxide

Shelf life:

- 5 years

Class III according to European Medical Devices Directive 93/42/EEC



## BD Exacta™ Percutaneous Sheath Introducer Sets

Sterile, single use

Percutaneous Sheath Introducers for the introduction of Pulmonary Artery Catheters

Size (Fr)†	PU Introducer Length (mm)	Cannula Introducer Gauge & Length (mm)	Needle Introducer Gauge & Length (mm)	Guidewire OD & Length (mm)	Contamination Shield Length (mm)	High-Flow Stopcock	Syringe	Scalpel	Obturator	Box/Case Contents (Units)	Item Number
6.0	100	16G x 70	17G x 70	0.9 x 450	800	Yes	Yes	Yes	Yes	5/50	680128
7.0	100	16G x 70	17G x 70	0.9 x 450	800	Yes	Yes	Yes	Yes	5/50	680140
8.0	100	16G x 70	17G x 70	0.9 x 450	800	Yes	Yes	Yes	Yes	5/50	680126
8.5	100	16G x 70	17G x 70	0.9 x 450	800	Yes	Yes	Yes	Yes	5/50	680124
9.0	100	16G x 70	17G x 70	0.9 x 450	800	Yes	Yes	Yes	Yes	5/50	680136

† for introduction of 1 Fr smaller size catheters

A complete range of polyurethane sheath introducer systems.

- Integral side-arm.
- Tuohy-Borst adapter and haemostasis valve.
- BD Exacta™ sets include a contamination shield with Tuohy-Borst lock.
- Individually packed, sterile, non-pyrogenic and radiopaque.

### How BD Exacta™ Introducers can benefit you

- Polyurethane sheath reduces risk of thrombus formation in-situ.
- Flexible hub minimises potential for kinking of introducers.
- Profiled sheath tip and matched dilator facilitates smooth, atraumatic insertion.

- Tuohy-Borst adapter minimises catheter migration and improves catheter control.
- Self-seal haemostasis valve minimises risk of blood loss.
- VenaGuide™ Seldinger wire advancing device allows single handed wire insertion.
- Sterile double tray packaging for increased safety.

Sterilisation method:

- Ethylene oxide

Shelf life:

- 3 years

Class III according to European Medical Devices Directive 93/42/EEC



## BD Criticath™ Pulmonary Artery Catheters for Monitoring Right Heart Pressures and Cardiac Output Measurements

Sterile, single use

Catheters for monitoring Right Heart Pressures and Cardiac Output Measurement

Model	Size (Fr)	Length (cm)	Number of lumens	PA wedge pressure	CV pressure	Cardiac Output	CVP medic. port	Ventric. pacing	Heparinised	Additional Information	Box/Case Contents (Units)	Item Number
SP5105H	5Fr	80	4	Yes	Yes	Yes			Yes		5/20	680084
SP5107	7Fr	110	4	Yes	Yes	Yes			No		5/20	680098
SP5107H	7Fr	110	4	Yes	Yes	Yes			Yes		5/20	680078
SP5107H-14	7Fr	110	4	Yes	Yes	Yes			No	Pre-mounted Luer-Lok™ AC shield	5/20	680088
SP5107+SP5045	7Fr	110	4	Yes	Yes	Yes			No	Pre-mounted In-Line Inject. sensor	5/20	680099
SP5107H+SP5045	7Fr	110	4	Yes	Yes	Yes			Yes	Pre-mounted In-Line Inject. sensor	5/20	680077
SP5127	7 Fr	110	4	Yes	Yes	Yes			No	"S" shaped, to facilitate femoral insertion.	5/20	680104
SP5127H	7 Fr	110	4	Yes	Yes	Yes			Yes	"S" shaped, to facilitate femoral insertion.	5/20	680089
SP5507	7.5Fr	110	5	Yes	Yes	Yes	Yes		No		5/20	680102
SP5507H	7.5Fr	110	5	Yes	Yes	Yes	Yes		Yes		5/20	680082
SP5507H-14	7.5Fr	110	5	Yes	Yes	Yes	Yes		Yes	Pre-mounted Luer-Lok™ AC shield	5/20	680093
SP5507HS	7.5Fr	110	5	Yes	Yes	Yes	Yes		Yes	"Soft" version	5/20	680080
SP5507+SP5045	7.5Fr	110	5	Yes	Yes	Yes	Yes		No	Pre-mounted In-Line Inject. sensor	5/20	680100
SP5537	7.5Fr	110	5	Yes	Yes	Yes		Yes	No		5/30	680106
SP5537H	7.5Fr	110	5	Yes	Yes	Yes		Yes	Yes		5/30	680081
VascoStim trans-luminal pacing lead	2Fr	150						Yes		For use with model no. SP5537 catheters	1	0501-089

- A range of flow directed, balloon tipped catheters for both adult and paediatric use.
  - Use for monitoring right heart pressures and obtaining venous blood samples.
  - Thermodilution technique used to measure Cardiac Output.
  - Options include temporary ventricular pacing and 'S' tipped for femoral insertion.
  - Also available in hard and soft versions.
  - Individually packed, sterile and non-pyrogenic.
- How BD Criticath™ can benefit you**
- Rounded catheter tip design allows for smooth insertion and reduces risk of vessel trauma.
  - Heparin coating minimises risk of thrombus formation.
  - Strong circular lumen design reduces kinking and enhances pressure signal transfer.
  - Catheter depth markings facilitate accurate placement and catheter manipulation.
  - Smooth balloon/catheter junction reduces risk of balloon rupture and thrombus formation.
  - Some models have a pre-mounted in-line injectate sensor housing or an anticontamination (AC) sheath on the catheter for user convenience.
- Sterilisation method:
- Ethylene oxide
- Shelf life:
- 2 years
- Class III according to European Medical Devices Directive 93/42/EEC



## BD Critikit™ Ice/Room Temperature Injectate Systems

Sterile, single use

Closed loop in-line injectate systems for improved accuracy of cardiac output measurement

Model	Description	Sterile	Box/Case Contents (Units)	Item Number
SP4500	Ice/ Room temperature Injectate Critikit (with in-line sensor, Control syringe & Cooling coil)	Yes	4/8	680000
SP4572	Room temperature Injectate Critikit (with in-line sensor, Control syringe w/o Cooling coil)	Yes	5/20	680178
SP5045	In-line injectate sensor housing	Yes	25/250	680006
Spectraject	10cc control syringe	Yes	10/50	682155

- Available in both iced and room temperature injectate options.
- Closed circuit design offers an aseptic approach to cardiac output measurement.
- Individually packed, sterile, non-pyrogenic and latex-free.
- Set comprises an injectate sensor housing with three way stopcock, one way check valve, Spectraject 10cc syringe, cooling coil, delivery tubing and IV spike.
- In-line injectate sensor optimises accuracy of temperature readings.
- Syringe design allows smooth injectate action improving data validity.

Sterilisation method:

- Ethylene oxide

Shelf life:

- 5 years

Class IIa according to European Medical Devices Directive 93/42/EEC

### How BD Critikit™ can benefit you

- Closed loop system reduces risk of line contamination.
- Insulated volume-restricted syringe facilitates precise and reproducible injectate.

Non-Sterile Accessories:

Model	Description	Sterile	Box/Case Contents (Units)	Item Number
SP4042	In-line injectate sensor cable. For use with Abbott Oximetric, Arrow, Baxter Edwards 9520A or Com1, Mennen Horizon 2000 Series (cable 800-030-200), Spacelabs Alpha PC or PCMS (bifurcated cable model 306655-001), Datex A53 and Critikit Injectate set or SP5045 sensor housing.	No	1	684056
SP4044	In-line injectate sensor cable. For use with Marquette Cardiac Output Module and Critikit Injectate set or SP5045 sensor housing.	No	1	684059
SP4045	In-line injectate sensor cable. For use with HemoPro (SP1445), Nikon Kohden, Spacelabs (bifurcated cable model 306655-002), Fukuda Denshi IB5006 (DSCP), Dynascope DS3300 and Critikit Injectate set or SP5045 sensor housing.	No	1	684062
SP4046	In-line injectate sensor cable. For use with Hewlett Packard Cardiac Output Module (HP trifurcated cable M1641A or M1642A) and Critikit Injectate set or SP5045 sensor housing.	No	1	684063
SP5500	Ice container for use with Critikit (SP4500).	No	4	684004
SP5555	Bracket for pole mounting ice container.	No	5/50	682161

Class I according to European Medical Devices Directive 93/42/EEC



## BD DTX Plus™ Disposable Pressure Transducers

Sterile, single use

- BD offers a wide range of disposable and reusable transducers.
- BD's experience is based on decades of research and development reaching back to the first practical blood pressure transducer introduced by Gould-Statham.

Model	Description	Box/Case Contents (Units)	Item Number
DT-XX	Disposable transducer with Critiflex integral flush device and stopcock (3cc/hr nominal flow rate)	10/100	682018
DT-NN	Disposable transducer for neonatal/paediatric uses. Used in conjunction with a mechanical infusion pump (max. 30cc/hr flow rate)	10/100	682019
DT-XO	Disposable transducers with integral flush device without stopcock (3cc/hr nominal flow rate)	10/100	682020
TNF-R	Disposable transducer without integral flush device or stopcock. Suitable for cardiology/neurology applications	10/100	682021

Sterilisation method: Ethylene oxide  
Shelf life: 5 years

Class IIa according to European Medical Devices Directive  
93/42/EEC

## BD DTX Plus™ Disposable Pressure Transducer Sets

Designed for ease of use and minimal wavelength distortion



Haemodynamic monitoring information is used to manage the care of critically ill patients. It is therefore essential that you are confident about the accuracy of the information that you are using. Fluid filled pressure monitoring systems will cause some distortion to the pressure waveform. Up to 40% distortion has been shown in some cases.<sup>1</sup>

Accuracy in pressure monitoring isn't just dependent on the transducer, it's dependent on all the components in the pressure monitoring system; catheter, pressure tubing, monitor filter and stopcocks. It has been shown<sup>2</sup> that in order to know the accuracy of your system, you need to consider the performance of the total chain where all the components are linked together.

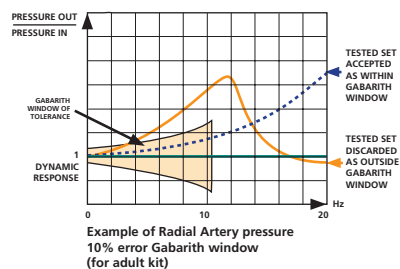
As a manufacturer we believe we have a responsibility to provide you with information about the accuracy of the whole monitoring system, not just the transducer. Therefore, BD has selected a range of standard BD DTX Plus™ sets which are Gabarith tested.<sup>2</sup>

The BD Gabarith™ test remains the only scientific technique that provides information about the dynamic response performance of the total pressure monitoring system (total chain).

The BD Gabarith™ test assesses the system against pre-set windows of error (2%, 5% and 10% waveform distortion). For example: If the dynamic response of a pressure chain falls within the 10% Gabarith window then we know the pressure waveform will not be distorted by more than 10%.<sup>3</sup>

Windows of tolerance are based on catheter tip sensor results (the 'gold' standard) using real patient data.

Every box of BD DTX Plus™ pressure monitoring sets is stamped with the BD Gabarith™ symbol. This shows that the set has passed the BD Gabarith™ test and has a known level of accuracy. The BD Gabarith™ test exceeds the demands of the AAMI standard (Association for the Advancement of Medical Instrumentation).



References:

- (1) Anesthesiology 53: 498-504, 1980; British Journal of Anaesthesia 1987, 59, 901-912; European Academy of Anaesthesiology - Strasbourg Aug/Sep 1997 (Bender HJ, Billiet E et al).
- (2) Billiet E, Colardyn F. (1998) Pressure Measurement Evaluation and Accuracy: The Gabarith Test. Intensive Care Medicine 24:1323-1326
- (3) Assuming that the set has been set up and zeroed in accordance with manufacturing instructions



## BD Gabarith™ Disposable Transducer Sets

Sterile, single use



Disposable Transducer Sets for the Invasive Monitoring of Haemodynamic Pressure

Number of Disposable Transducers	Flush/Flow rate (cc/Hr)	Total Pressure line length (cm)	Pressure line(s) colour	Additional Information	Box/Case Contents (Units)	Item Number
1	3	150	Clear	with R.O.S.E.	5/50	682001
1	3	150	Clear		5/50	682002
1	3	150	Red		5/50	682004
1	3	150	Blue	with R.O.S.E.	5/50	682005
1	3	150	Blue		5/50	682006
1	3	150	Yellow	Add-on set to set no. 682037, -38, -55	5/50	682008
1	3	175	Red	with R.O.S.E.	5/20	682009
1	3	175	Red		5/50	682010
1	3	25	Clear	Velcro strap for arm mount	5/50	682011
1	3	150	Blue	with Multiflo 5-way	5/50	682013
1	3	150	Clear	w/ non-shunting stopcock & extension set	5/25	682017
1	30	160 small bore	Clear	For use with infusion pump	5/50	682022
1	30	35 small bore	Clear	For use with infusion pump	5/50	682025
2	3	150/150	Red/Blue	with R.O.S.E. on blue line	5/25	682030
2	3	150/150	Red/Blue		5/25	682032
2	3	150/150	Red/Blue	with 3rd IV line for add-on set	5/25	682037
2	3	150/150	Blue/Yellow		5/25	682041
3	3	150/150/150	Red/Blue/Yellow		5/25	682046

- Validation by unique Gabarith™ accuracy test.
- A range of Single, Double and Triple Disposable Transducer Sets.
- Adult and Paediatric options.
- BD Safedraw™, closed loop arterial blood sampling system available. (Please refer to next section).
- R.O.S.E (Resonance OverShoot Eliminator) included in selected sets.
- Individually packed, sterile, non-pyrogenic and latex-free.
- Adult pressure sets include rotating male luer for easy and trouble-free connection onto the catheter.
- BD Connecta™ Plus sampling and zeroing stopcocks with on/off snap for confirmation of stopcock positioning.
- Designed straight fluid pathway minimises the risk of bubble entrapment and subsequent damping of signal.
- Robust monitor connection prevents water penetration and offers back pressure calibration facility.
- Unique 'Easy Vent' zeroing deadender minimises risk of touch contamination.
- Wide range of transducer set configurations covering neonatal to adult pressure monitoring requirements.

### How BD Gabarith™ sets can benefit you

- Unique Gabarith™ testing of sets, using total haemodynamic chain concept, offers the opportunity for improved haemodynamic accuracy<sup>1</sup>.

### Sterilisation method:

- Ethylene oxide

### Shelf life:

- 5 years

Class IIa according to European Medical Devices Directive 93/42/EEC

<sup>1</sup> Billiet E., Colardyn F. Pressure Measurement Evaluation & Accuracy Validation: The Gabarith Test. Intensive Care Medicine (1998) 24: 1323-1326



## BD Safedraw™ Safe Arterial Blood Sampling Disposable Transducer Sets

Sterile, single use



Closed loop arterial blood sampling disposable Transducer Sets for the Invasive Monitoring of Haemodynamic Pressure

Number of Disposable Transducers	Flush/Flow rate (cc/Hr)	Total Pressure line length (cm)	Pressure line(s) colour	Additional Information	Box /Case Contents (Units)	Item Number
1	3	155	Clear	3cc syringe restricted to 2cc	5/25	682027
1	3	155	Clear	5cc sheathed syringe restricted to 2cc	5/25	682051
1	30	135	Clear	For use with infusion pump/5cc sheathed syringe restricted to 1cc	5/25	682052
2	3	155/150	Clear/Blue	5cc sheathed syringe restricted to 2cc & with R.O.S.E. on blue line	5/20	682053
2	3	155/150	Clear/Blue	5cc sheathed syringe restricted to 2cc	5/20	682054
2	3	155/150	Clear/Blue	5cc sheathed syringe restricted to 2cc & with 3rd IV line for add-on set	5/20	682055
3	3	155/150/150	Clear/Blue/Yellow	5cc sheathed syringe restricted to 2cc	5/20	682056

Model	Description	Box/Case Contents (Units)	Item Number
TA-STV	BD Safedraw™: Vacutainer Transfer Device	25/125	682158
TA-BPN	BD Safedraw™: Luer Lok Safe-Needle	50/500	682159

- BD Safedraw™, unique system for closed loop arterial blood sampling.
- BD Safedraw™ arterial sampling system reduces the risk of cross contamination and blood spillage to patients and staff whilst facilitating blood sampling.
- Significantly reduces the risk of iatrogenic anaemia.
- A range of Single, Double and Triple Disposable Transducer Sets
- Adult and Paediatric options.
- Individually packed, sterile, non-pyrogenic and latex-free.

### How BD Safedraw™ sets can benefit you

- BD Safedraw™ significantly reduces unnecessary blood discard and blood spillage. Significantly reduces the risk of cross contamination and iatrogenic anaemia.

- BD Safedraw™ facilitates easier sampling and superior clinical samples, thereby achieving more reliable laboratory values.
- Unique BD Gabarith™ testing of sets, using total haemodynamic chain concept, offers the opportunity for improved haemodynamic accuracy.

Sterilisation method:

- Ethylene oxide

Shelf life:

- 5 years

Class IIa according to European Medical Devices Directive 93/42/EEC



## BD Reusable Pressure Transducers, Disposable Domes & Accessories

Model	Description	Box/Case Contents (Units)	Item Number
<b>BD REUSABLE TRANSDUCERS AND ACCESSORIES</b>			
P23XL-1	Standard size (non-sterile)	1	684000
P10EZ-1	Minaturised (non-sterile)	1	684001
TA9007	Transducer holder for 2 P23XL	10/100	682103
TA9010	Transducer holder for 4 P23XL	5/50	682061
Interface cables		Please see page 20	

Reusable transducers and accessories are Class I according to European Medical Devices Directive 93/42/EEC

### BD DISPOSABLE DOMES

TA1015T	For P23XL and P23ID with integrated CRITIFLO™ flush device (3cc/hr)	10/100	682058
TA1017	For P10EZ and P50 with integrated CRITIFLO™ flush device (3cc/hr)	10/100	682059
TA1016	For P23XL and P23ID with integrated CRITIFLO™ flush device (30cc/hr)	10/100	682064
TA1018	For P10EZ and P50 with integrated CRITIFLO™ flush device (30cc/hr)	10/100	682065
TA1017M	Item TA1017 with mounting plate for IV pole mounting	10/100	682090
TA1017SM	Item TA1017M with Velcro strap for patient mounting	10/100	682091
TA1019	For P10EZ and P50. Rotating Luer fitting	12/120	682089
TA1010ND	For P23XL and P23ID. Rotating Luer fitting	12/120	682084
TAHPQ-1	TA1295C Dome for HP1290/1295 HP Transducer. Linden fitting (Non Parallel)	12/120	682102
TA4005	CRITIFLO™ flush device (30cc/hr)	10/100	682063
TA4004	CRITIFLO™ flush device (3cc/hr)	10/100	682060

- BD's expertise with reusable transducers is based on a long experience of research and development initiated by the first transducers designed by Gould-Statham.
- BD's reusable transducers are fitted with a standard wiring. They can be connected to most of the existing monitors thanks to the wide range of BD interface cables.
- BD's disposable domes are equipped with a membrane to facilitate aseptic techniques.

Disposable dome sterilisation method:

- Ethylene oxide

Shelf life:

- 5 years

Disposable domes are class IIa according to European Medical Devices Directive 93/42/EEC



## BD Pressure Lines, BD Connecta™ PE Pressure Lines & Pressure Accessories

Sterile, single use

Male/Female or Male/Male Line Connection	Tubing Length (cm)	Line colour coding	Box/Case Contents (Units)	Item Number
<b>BD PRESSURE LINES (PVC)</b>				
M/F	25	Clear	25/125	682226
M/F	100	Clear	25/125	682229
M/F	150	Clear	25/125	682230
M/F	200	Clear	25/125	682232
M/M	100	Clear	25/125	682234
M/M	150	Clear	25/125	682079
M/M	200	Clear	25/125	682236
M/F	100	Red	25/125	682237
M/F	150	Red	25/125	685185
M/M	125	Blue	25/125	685190
M/M	150	Blue	25/125	685171
M/F	150	Yellow	25/125	686619
<b>CONNECTA™ PE PRESSURE MONITORING LINES (PolyEthylene)</b>				
M/F	15	Clear (Red/Blue clips)	25/250	682194
M/F	50	Clear (Red/Blue clips)	25/250	682185
M/F	100	Clear (Red/Blue clips)	25/250	682189
M/F	150	Clear (Red/Blue clips)	25/250	682191
M/F	200	Clear (Red/Blue clips)	25/250	682192
M/M	50	Clear (Red/Blue clips)	25/250	682186
M/M	100	Clear (Red/Blue clips)	25/250	682190
M/M	200	Clear (Red/Blue clips)	25/250	682193

- BD Pressure Lines (PVC) for accurate transmission of the pressure waveform.
- BD Connecta™ PE (PolyEthylene) lines as a non PVC alternative.
- Colour coded (red/blue) clips supplied with BD Connecta™ PE to facilitate line identification.

Sterilisation method: Ethylene oxide  
Shelf life: 5 years

Class IIa according to European Medical Devices Directive 93/42/EEC

Model	Description	Box/Case Contents (Units)	Item Number
<b>PRESSURE ACCESSORIES (non-sterile)</b>			
TBG	Transducer BackGround for pole mounting (up to 4 transducers)	10/100	682093
TMM	Snap-On TMM Cable Organiser	5/50	682274
TMM/TBG	TBG with Snap-On TMM Cable Organiser	5/50	682275
XCaliber™	Transducer tester for monitor calibration	1	684002
Cable Checker	Electrical tester for compatible interface cables	1	684003

- Cable Checker to check for cable continuity.
- XCaliber™ to check correct static response of the transducer.
- Interface cables - see page 20.

Class I according to European Medical Devices Directive 93/42/EEC



## BD Transducer Interface Cables

- BD supply compatible interface cables for the majority of currently available blood pressure monitors.
- Below is listed the most common interface cables for use with BD's transducers. If your requirements are not listed please contact your local BD office for assistance.

- When purchasing cables please specify:-
  1. Monitor type.
  2. Model number and/or serial number.
- Non-sterile items.

Class I according to European Medical Devices Directive 93/42/EEC

Monitor	Model	Item Number
No Monitor connection	(Flying Leads)	684109
Brucker	TM910M	684230
Burdick / Datex	M565 PDM / Cardiopac CC104 / AS3 / Cardiopac II / Datex AS3 / S5	684089
Criticare	MATRIX, Scholar 2200	684175
Criticon	Dynamap	684085
Datascope	All Models	684078
Datex Ohmeda (GE)	SYS 800, MOD 8641, SIVA 3000	684104
Dräger	PM8040, PM8060, Dräger Cato, Cicero & Julian Anes.machine, Vitara	684128
E For M	RM300 (E for M/Honeywell)	684128
Hellige (Litton)	4th/5th Generation / SMC 108 / Servomed / SMU 610, 611.612, SMU EVO	684086
Jostra		684138
Kontron, Arrow	Minimon 7131 etc, 7132 etc, K2000, 7272 / Supermon 7210 / Cart 2 Plus Balloon Pump, Oxford ACAT1	684129
Marquette	7000 series, 7010 Mod 7200	684096
Marquette	7009 / Tramscope Series(6005L) - Eagle-Solar 8000, Solar 9000, Eagle3000/1000, Mab Lab 6F3F, Tram 450SL, 6200, Tram600A, EK36	684102
Medical Measurement Systems	UPS-2020 (4ft cable)	684204
Medical Measurement Systems	UPS-2020 (12ft cable)	684242
Mennen	Envoy	684248
Nellcor	Escort 300 MDE	684085
Nihon Kohden	MFV1100,1200,1230A; Lifescope 8, 9, 11, 12, 14,BSM-8300J/K, 3000, BSM4100	684090
Nihon Kohden	NK9000	JP-900P
Philips	CM140	684128
Phillips (Hewlett Packard)	78341A, 78342A, etc. / 78354C, 78205A-D, 12-pin / 78352, CMS (Merlin line), M1006A/B, M1026A / M1166A / Viridia / HP Scop Eurelie 24C, CMS2001, V24,V26,M2,M3,M4	684081
Physiogard	Physiogard	684230
PPG Biomedical / Hellige / Marquette	MIDAS; Hellige Midas 5000, 2500, 2100 series	684167
Protocol Propaq	Protocol Propaq series; Propaq 106EL;	684085
PRUCKA ENG INC	CARDIOLAB II / 1.1, AMP II	684181
Quinton	Q-cath lab system	684134
Schwarzer	MX960	684175
Siemens	3rd Generation, 400 Series, 960, 961, Sirecust 4041, 700,1260, 342, 732, Dash3000, SC7000, SC8000, SC9000	684082
Siemens	Siereg/Sicor BPA 863 (15-pole Cannon Connector) / Mingograph 6 Cathor	684121
Siemens	SC 6000P,6002,5000, 6004, 7000	684178
Siemens	HemoPod adapter	684199
Spacelabs	Alpha 700 Series	684084
Spacelabs	Series 400, 500, 90308/11/31, MOD-CD	684085
Spacelabs (Vitatek) / BCI	400, 500, 90485, Alpha-PC, 90603A,BCI 9100,90303B-Mod90470-05, CD-CV, 90369, 90385, 90470, 90496, Ultraview 1600	684227
Stockert	S3	684188
Stockert	Heart Lung Machine	684243
Tektronics	400 Series	684085
Vitalert	2000	684085
Vitatek	Series 400, 500	684085
Zoll	Zoll Defibrillators	684085

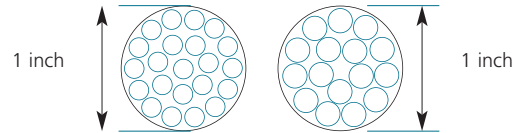
### Cannulae/Catheter Conversions

Gauge (SWG)	outer Ø mm	inch	Charriere (French) 1 Ch=0,33 mm
	0,5	0,019	
24	0,6	0,024	2
23	0,7	0,027	
22	0,8	0,031	
21	0,9	0,035	
20	1,0	0,039	3
19	1,1	0,043	
18	1,2	0,047	
	1,3	0,051	
17	1,4	0,055	4
	1,5	0,059	
16	1,6	0,063	5
	1,7	0,067	
15	1,8	0,071	
	1,9	0,075	
14	2,0	0,079	6
	2,1	0,083	
13	2,2	0,086	
	2,3	0,091	7
	2,4	0,094	
	2,5	0,098	

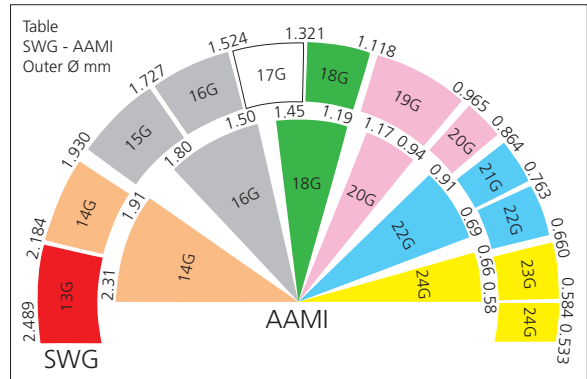
### Cannulae/Catheter Conversions

#### Outer Diameters/Gauge-French Sizes

The definition of gauge measurement comes from the AAMI (Association for the Advancement of Medical Instrumentation - USA). This states how many cannulae fit into a tube with an inner diameter of 1" (1 inch = 25.4mm).



The AAMI uses only even numbers (18, 20, 22, etc.) as measuring units. A similar measurement definition exists in Great Britain and this is known as the SWG (Standard Wire Gauge). The SWG uses consecutive numbers, ie 13 to 24 and is the more common method of measurement for catheters in Europe. The Charriere, commonly known as French, relates directly to the catheter size, ie 1 Ch = 0.33mm. In the following tables the measurements of the AAMI - SWG - French are shown in relation to the outer Ø in mm.



BD's multi lumen catheter (Careflow™) hub colour coding differentiates the lumens and not the catheter gauge, ie

white	○	proximal
brown	●	tip
blue	●	middle

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