

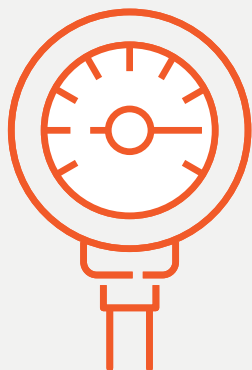


BD Nexiva Diffusics™ Closed IV Catheter System

One catheter to meet your infusion therapy and CT needs

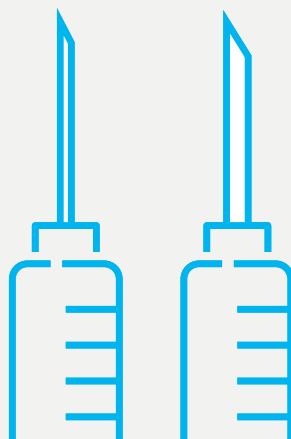


Comfort and control under pressure



Specific flow rates are required for contrast-enhanced CT procedures to deliver good image quality.

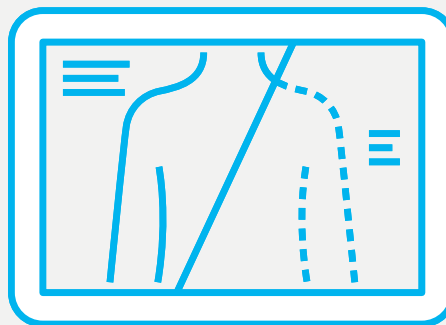
Higher flow rates have traditionally necessitated the use of large-gauge catheters.



However, many patients don't have the **vasculature** to support a large-gauge catheter.



When a small-gauge catheter is placed, slower flow rates and **reduced image quality** may result.



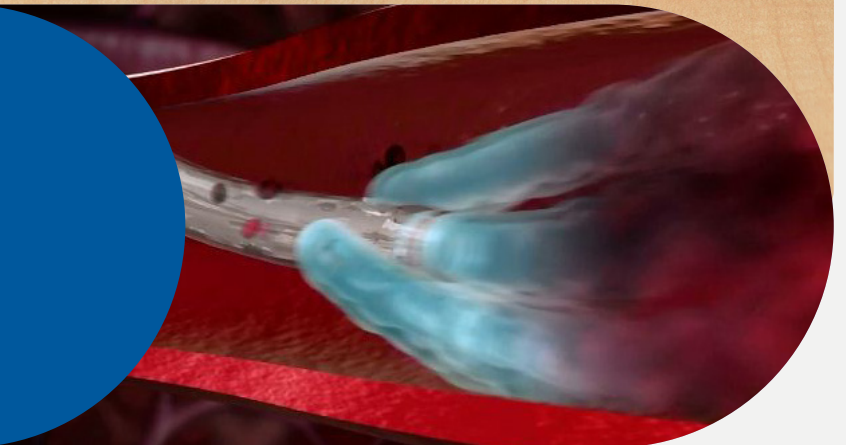
The innovative BD Nexiva Diffusics™ Closed IV Catheter System addresses these concerns when contrast-enhanced imaging becomes part of the patient's care.



Power injectable up to 325 psi



BD Nexiva Diffusics™ Catheter System is power injectable up to 325 psi for all gauge sizes (18–24 G). It also meets your high flow injection protocols (22 G up to 6.5 mL/sec).



When the pressure is on, go with the flow

The BD Nexiva Diffusics™ Closed IV Catheter System is an integrated PIVC system specifically designed to enable the delivery of contrast media via power injection.

Diffusion tip technology

Within the catheter tip are three laser-cut teardrop holes, which are optimally shaped to maximize the diffusion of contrast into the vein. BD Nexiva Diffusics™ Catheter System is the only peripheral IV catheter with a diffusion catheter tip specifically designed for power injection.



3
laser-cut
teardrop
holes

22 gauge



6.5 mL/sec

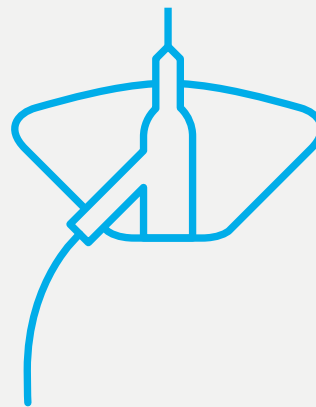


Down gauge

The unique diffusion tip that enables the use of a smaller gauge for high-flow protocols (22 gauge up to 6.5 mL/sec) while still delivering the desired image quality.¹

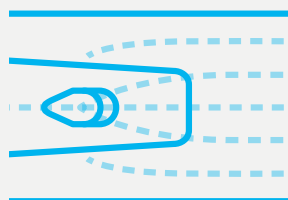
Less movement

The BD Nexiva Diffusics™ Catheter System reduces the forces that may cause catheter motion in the vein by up to 67%. This reduction in force has been shown to stabilize the catheter in the vein.[†] Catheter motion may lead to extravasation, a complication caused by the catheter backing out of the vein.² The average potential liability for a moderate extravasation is \$21k and up to \$138k for a severe extravasation.³



67%
reduced motion*

48%
reduced force*[†]



Reduced delivery force*[†]

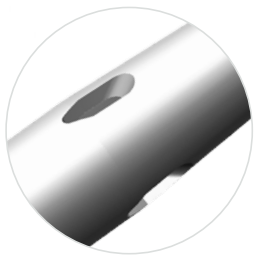
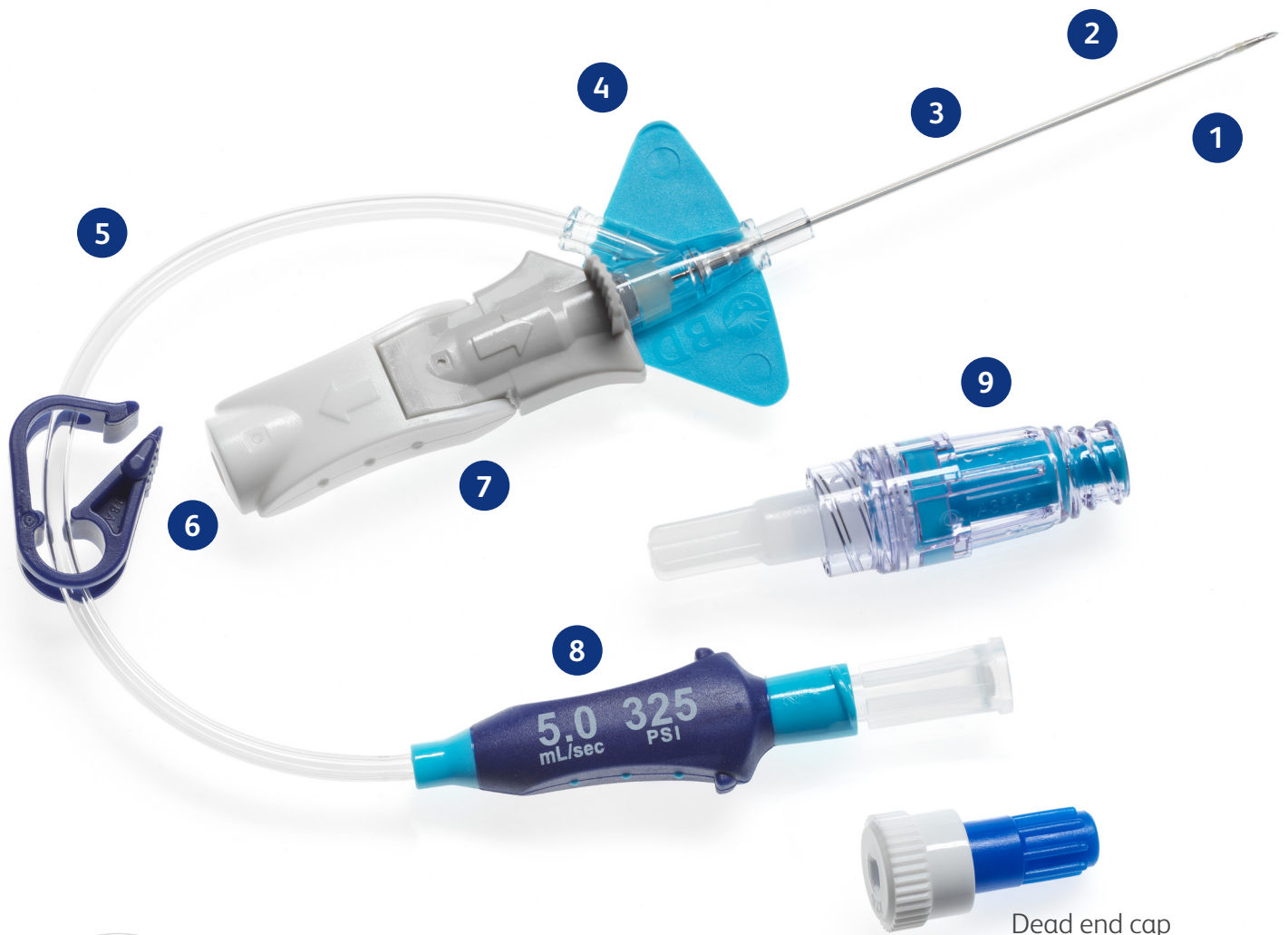
The diffusion tip reduces the force of contrast delivery on the vein wall by up to 48%, meaning the contrast hits the vein wall with less force. This is a reduction in jet pressure not the system pressure of the power injector.

* Compared to a non-diffusion tip catheter.

*[†] Animal study results may not necessarily be indicative of the clinical performance.

[†] Evaluated in an animal study. Animal study results may not be indicative of clinical performance.

The innovation behind the BD Nexiva Diffusics™ Closed IV Catheter System



1 Diffusion tip

- Catheter tip with three optimally shaped holes
- Enables higher flow rates with a smaller gauge catheter (22–24 G*)
- Reduces forces that may cause catheter motion in the vein by up to 67%*,†
- Significantly less force of contrast delivery during power injection *,†

2 BD Instaflash™ Needle Technology

Clinically demonstrated to significantly improve first-attempt insertion success^{‡,4,5}



3 BD Vialon™ Catheter Material

Softens, enabling longer dwell time and reducing the chance of phlebitis up to 69%^{§,6-8}



4 Built-in stabilization platform[†]

Reduces dislodgement by 84%^{‡,9}



5 Integrated system

- Designed to contain blood ^{#,9}
- Integrated extension tubing and stabilization platform reduces the risk of dislodgement and related complications^{‡,9,10}
- Minimizes the number of manipulations that may lead to touch contamination and accidental disconnections^{** ,11}



6 Compact passive safety

Passive safety and fully covered needle tip offer protection from needlestick injuries



7 Flow rates indication

Clear indication of maximum flow rates at 325 psi



8 Ergonomic grip

Allows for a variety of insertion techniques



9 MaxZero™ Needle-free Connector^{††}

- Has a solid-sealed surface that can be disinfected in only three seconds using 70% isopropyl alcohol
- Has a clear fluid path that promotes effective flushing practice
- Assists in maintaining closed lines for up to 7 days, protecting against bacterial entry
- Expels fluid from the catheter tip, preventing blood from entering back into the catheter upon disconnection. This aids in reducing occlusions¹²
- Associated with a 55% reduction in thrombotic occlusions^{††,12}



* Bench test results may not necessarily be indicative of the clinical performance.

† Compared to a non-diffusion tip catheter.

‡ Compared to a non-notched needle.

§ Compared to an FEP catheter.

¶ BD Nexiva™ Closed System with 3M™ Tegaderm™ IV Securement Dressing compared to B. Braun Introcath Safety® Catheter with Statlock® IV Ultra Stabilization Device and non-bordered dressing.

Compared to an open system.

**Compared to a non-integrated catheter.

††BD Nexiva Diffusics™ can be ordered with and without MaxZero™ Needle-free Connector. Dead end cap is always included.

BD Nexiva Diffusics™ Closed IV Catheter System

Catalog no.	Size	Inner diameter	Outer diameter	Extension tube length	Maximum pressure limit	Maximum power injection flow rate for contrast media 26.6cp (mpa-s)*	Gravity flow rate	Units box/case
383590	24 GA X 0.75 in 0.7 X 19 mm	0.021 in 0.53 mm	0.028 in 0.71 mm	4.5 in 114.3 mm	325 psi 2240 kPa	3.0 mL/sec	21 mL/min	20/80
383591	22 GA X 1.00 in 0.9 X 25 mm	0.0265 in 0.67 mm	0.0355 in 0.90 mm	4.85 in 123.19 mm	325 psi 2240 kPa	6.5 mL/sec	45 mL/min	20/80
383592	20 GA X 1.00 in 1.1 X 25 mm	0.0325 in 0.83 mm	0.0435 in 1.10 mm	4.85 in 123.19 mm	325 psi 2240 kPa	10.0 mL/sec	68 mL/min	20/80
383593	20 GA X 1.25 in 1.1 X 32 mm	0.0325 in 0.83 mm	0.0435 in 1.10 mm	4.85 in 123.19 mm	325 psi 2240 kPa	10.0 mL/sec	64 mL/min	20/80
383594	18 GA X 1.25 in 1.3 X 32 mm	0.0385 in 0.98 mm	0.0515 in 1.31 mm	4.85 in 123.19 mm	325 psi 2240 kPa	15.0 mL/sec	90 mL/min	20/80

BD Nexiva Diffusics™ Closed IV Catheter System with BD MaxZero™ Needle-free Connector

Catalog no.	Size	Inner diameter	Outer diameter	Extension tube length	Maximum pressure limit	Maximum power injection flow rate for contrast media 27.5cp (mpa-s)*	Gravity flow rate	Units box/case
383595	24 GA X 0.75 in 0.7 X 19 mm	0.021 in 0.53 mm	0.028 in 0.71 mm	4.5 in 114.3 mm	325 psi 2240 kPa	3.0 mL/sec	21 mL/min	20/80
383596	22 GA X 1.00 in 0.9 X 25 mm	0.0265 in 0.67 mm	0.0355 in 0.90 mm	4.85 in 123.19 mm	325 psi 2240 kPa	6.5 mL/sec	45 mL/min	20/80
383598	22 GA X 1.75 in 0.9 X 45 mm	0.0265 in 0.67 mm	0.0355 in 0.90 mm	4.85 in 123.19 mm	325 psi 2240 kPa	5.0 mL/sec	33 mL/min	20/80
383597	20 GA X 1.00 in 1.1 X 25 mm	0.0325 in 0.83 mm	0.0435 in 1.10 mm	4.85 in 123.19 mm	325 psi 2240 kPa	10.0 mL/sec	68 mL/min	20/80
383587	20 GA X 1.25 in 1.1 X 32 mm	0.0325 in 0.83 mm	0.0435 in 1.10 mm	4.85 in 123.19 mm	325 psi 2240 kPa	10.0 mL/sec	64 mL/min	20/80
383599	20 GA X 1.75 in 1.1 X 45 mm	0.0325 in 0.83 mm	0.0435 in 1.10 mm	4.85 in 123.19 mm	325 psi 2240 kPa	8.5 mL/sec	53 mL/min	20/80
383588	18 GA X 1.25 in 1.3 X 32 mm	0.0385 in 0.98 mm	0.0515 in 1.31 mm	4.85 in 123.19 mm	325 psi 2240 kPa	15.0 mL/sec	90 mL/min	20/80
383589	18 GA X 1.75 in 1.3 X 45 mm	0.0385 in 0.98 mm	0.0515 in 1.31 mm	4.85 in 123.19 mm	325 psi 2240 kPa	11.0 mL/sec	84 mL/min	20/80

*The catheter system has been tested at flow rates; however, due to variations in add-on devices, tubing, contrast media temperature and pressure limit settings these flow rates may not be achievable.

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