

BD Nexiva™ Diffusics™

Closed IV Catheter System for radiographic power injection



The BD Nexiva Diffusics system is part of the family of BD Nexiva™ closed IV catheters and is an innovation targeted at delivering IV therapy requirements as well as high-flow-rate needs commonly required when contrast-enhanced imaging becomes part of the patient's care. A similar closed IV catheter system design (BD Saf-T-Intima™ catheter) was first released in the United

States in 2005 by BD and has been popular with infusion nurses, who value its integrated extension set that allows for hub access away from the insertion site and is designed to minimize blood exposure. It also features a unique stabilization platform that, when used with the specially designed 3M Tegaderm™ dressing, has been clinically demonstrated in a randomized clinical trial to reduce dislodgement rates.^{1*} The BD Nexiva™ Diffusics™ system was specifically engineered to deliver on today's power injection requirements and is equally suited to deliver infusion therapy outside of the imaging suite.

The BD Nexiva™ Diffusics™ system has three laser-cut teardrop holes optimally shaped and located in the catheter tip to maximize the diffusion of contrast into the vein. BD engineers were able to accomplish this while maintaining the tip integrity and insertion characteristics that you expect from BD IV catheters. This diffusion tip acts to reduce the intensity of flow exiting the catheter tip, which may decrease stress on the vein wall. In vivo studies² showed that compared to a 20 gauge standard nondiffused IV catheter, the BD Nexiva Diffusics 22 and 24 gauge catheters had equivalent stability at the maximum indicated flow rates.



24 gauge IV access system rated for 325 psi

We understand that you want simplicity in your workflow and to provide the best care for your patients. In order to alleviate delays and keep focused on the patient, you want to have a catheter in place that is able to meet your high-flow-rate injection protocols and is compatible with your power injector's 325 psi setting.

For example, you may be able to meet **all** of your injection protocol requirements with just the 22 gauge BD Nexiva™ Diffusics™ catheter. The 22 gauge can handle up to 6.5 mL/sec and with the 20 gauge you'll be covered up to 10.0 mL/sec.

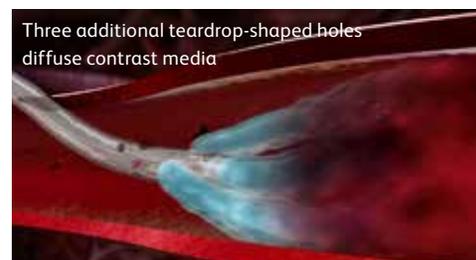
Clinical organizations recommend using larger gauge sizes³ for contrast media injection, while recommending smaller gauge sizes⁴ for infusion therapy. Why compromise?



Stabilization platform shown with 3M Tegaderm™ Dressing specially designed for the BD Nexiva™ Catheter



Magnified 7x



Three additional teardrop-shaped holes diffuse contrast media

Power injection flow rates

Gauge and length	BD cat no.	Maximum power injector flow rate for contrast media viscosity 27.5 cP* (mL/sec)	Max injector setting (PSI)
24 G 0.75 in.	383590	3.0	325
22 G 1.00 in.	383591	6.5	325
20 G 1.00 in.	383592	10.0	325
20 G 1.25 in.	383593	10.0	325
18 G 1.25 in.	383594	15.0	325

The catheter system has been tested at the listed 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.

Refer to package insert for complete instructions for use, warning and cautions.

*Compared to B. Braun Introcath Safety® catheter with BARD Statlock™ IV Ultra stabilization device.

¹Bausone-Gazda D, Lefaiver C, Walters SA. A randomized controlled trial to compare the complications of 2 peripheral intravenous catheter stabilization systems. *J Infus Nurs.* 2010;33(6):371-384. doi: 10.1097/NAN.0b013e3181f85be2.

²Becton, Dickinson and Company. *An In-Vivo, Ovine, Fluoroscopic Assessment of Catheter Motion During Power Injection of Iodinated Contrast Media.* 2011.

³American College of Radiology. *ACR Manual on Contrast Media.* Version 10.3. 2017.

⁴Infusion Nurses Society. *Infusion therapy standards of practice.* *J Infus Nurs.* 2016;39(1S).

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