

# CARESITE and Extension Sets

Needle-free Positive Displacement  
Luer Access Device

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SHARING EXPERTISE



# CARESITE

## Needle-free Positive Displacement Luer Access Device

Easy to inspect.



Easy to clean.



Easy to grip.



Easy to connect.

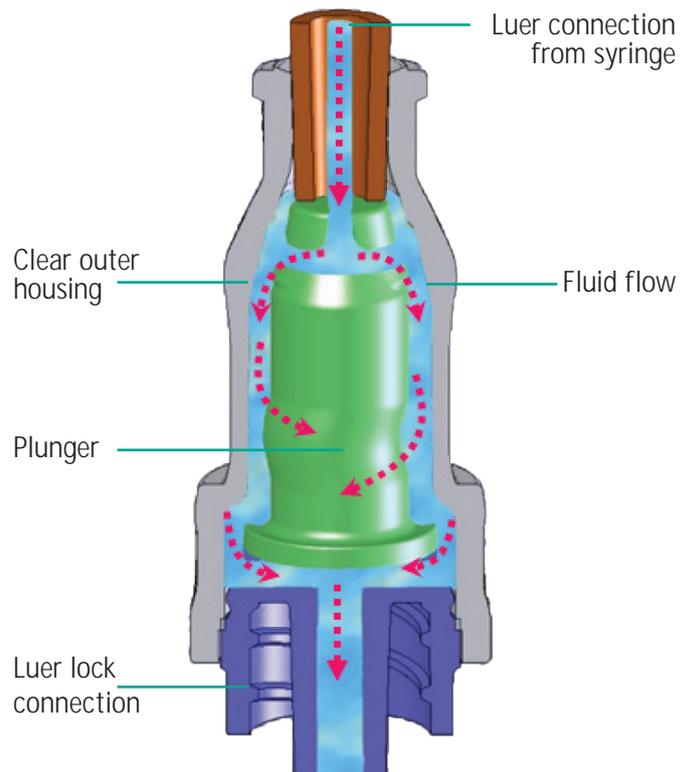


### CARESITE benefits:

- Smooth, swabable surface which protects against microbiological contamination and permits easy cleaning<sup>2,3,11</sup>.
- Prevents the escape of hazardous contaminants<sup>2,3</sup>.
- Positively displaces 0.03ml of fluid to assist the prevention of catheter occlusion.
- Transparent barrel allows for ease of inspection<sup>1</sup>.

### CARESITE product specifications<sup>1</sup>

Split Septum valve technology (not intended for use with blunt cannula)	Yes
Priming Volume (stand alone valve)	0.22 ml
Retained Volume (stand alone valve)	0.20 ml
Durability - no. of accesses	1000
Swabable	Yes
Blood Compatible	Yes
Lipid Compatible	Yes
Pressure	400 psi @ 15ml/sec
Flow Path	Open fluid path around plunger. No fluid entrapment areas
Fluid Displacement	0.03 ml (positive)
Flow Rate	Up to 208 ml/min
MRI Compatible	Yes. No metal components
Latex and DEHP free	Yes



## CARESITE offers:

### Open fluid path design and transparent housing for ease of inspection

CARESITE Blood Clearance studies<sup>13</sup> demonstrate that 100% clearance can be achieved with a 10mL 0.9% Sodium Chloride (NaCl) flush. The ability to clear virtually all haemoglobin with the aid of: low reflux technology, good catheter maintenance<sup>4</sup> and visual inspection, may lead to reductions in cannula occlusion and catheter related blood stream infection (CRBSI).

### Protection against microbial contamination<sup>2,3,4,11</sup>

CARESITE Microbial Challenge results showed no microbial growth over five (5) days demonstrating extended microbial protection (with good catheter maintenance) can be obtained. This aligns with CDC guidelines, for replacement of administration sets and needleless intravascular catheter systems<sup>6,7</sup>, along with infection control practices of hospitals today.

### Prevention of hemolysis<sup>8,9,10</sup>

CARESITE demonstrates that blood samples can be obtained without risk for hemolysis at amounts that would affect clinical decisions. The average hemolysis value for the CARESITE group was 0.4% for blood aspiration and 0.2% for injection: well below the 5% hemolysis limit, indicating that both the design and material of the device does not produce hemolysis.

### Closed System<sup>2,3,4,5</sup>

The CARESITE Valve is a "closed system" according to the NIOSH Definition, providing both an effective microbial barrier and preventing the escape of contaminants such as cylostatics or other hazardous drugs.

CARESITE Extension sets **may reduce the effects of mechanical phlebitis** through reductions in direct movement at the venepuncture site<sup>12</sup>.

Designed with materials able to **withstand the corrosive effects of pharmacologic agents** such as lipids and cremophor, eliminating the potential risk of leaks and chemical exposure<sup>1</sup>.



**DEHP-free**

#### References

1. Engineering data on file
2. Test report - Evaluation of the microbial barrier performance of Caresite® valve against spores of Bacillus subtilis signed by Prof. Dr. med. M. Exner and Dr. rer. nat. J. Gebel, Report DMT 2013-412, 11.12.2013
3. Test report - Evaluation of the microbial barrier performance of the female valve Caresite® by touch contamination with Staphylococcus aureus signed by Prof. Dr. med. M. Exner and Dr. rer. nat. J. Gebel, Report DMT 2014-194, 09.12.2014
4. Test Report - Closed system test by means of Sodium Fluorescein signed by Dr. rer. nat. J. Brünke Quality Labs BT GmbH Nuremberg, Report 1678.2-1, 28.05.2013
5. Choosing the Best Design for Intravenous Needleless Connectors to Prevent Bloodstream Infections written by William R. Jarvis, 28.07.2010
6. American Nurses Association – Independent Study Module: Needlestick Safety and Prevention written by Mary Foley, MS, RN and Annemarie T. Leyden, EdD, RN
7. Review Article - Review on Needle Free Drug Delivery Systems, International Journal of Pharma Research & Review, written by Bhagyashri Chavan, Abha Doshi, Yashwant Malode, Balu Misal, Sept 2013; 2(9):30-36
8. Engineering data on file: Caresite - 7 Day Stress Cracking Lipids with Isopropanol
9. White Paper: CARESITETM Luer Access Device: Blood Clearance Test of the Needleless Connector, B. Braun Medical Inc., Bethlehem, PA., CS05\_07/10\_EB, 2010
10. White Paper: CARESITETM Luer Access Device: Mechanical Hemolysis Test of the Needleless Connector, B. Braun Medical Inc., Bethlehem, PA., CS06\_07/10\_EB, 2010
11. White Paper: CARESITE® Luer Access Device (LAD): 7- Day Microbial Barrier Performance, B. Braun Medical Inc., Bethlehem, PA., 15-5669 SW, 2017
12. Alexander M, Hankins J, Infusion Nursing: An Evidence Based Approach. 3rd ed. St Louis;: Saunders Elsevier; 2010:476
13. B. Braun Blood Clearance Test of the Needleless Connector, 2010.

# Product Information

Description		Length (cm)	Priming volume (ml)	Tubing Inner ø (mm)	Latex free	DEHP free	Box Qty	Article No.
CARESITE		-	0.22	-	✓	✓	200	415122
<b>Extension Sets</b>								
Small bore extension set with CARESITE, spinlock (high pressure - for power injections)		20	0.5	1.3	✓	✓	100	470100
Small bore Y-extension tubing, 2 x CARESITE, spinlock		18	0.9	1.3	✓	✓	50	470106-01
Small bore Y-extension tubing with BCVs, 2 x CARESITE, spinlock		22	1.6	1.3	✓	✓	100	470182
Small bore triple extension tubing, 3 x CARESITE, spinlock		20	1.3	1.3	✓	✓	50	470160
Small bore triple extension tubing with BCVs, 3 x CARESITE spinlock		22	2.0	1.3	✓	✓	50	470161

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