

References

1. Engineering data on file

2. Test report - Evaluation of the microbial barrier performance of Caresite® valve against sporesog 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 Et 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

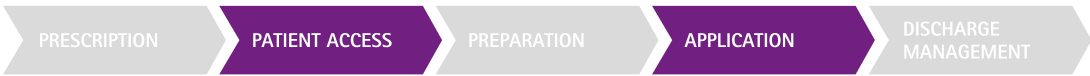
11. White Paper: CARESITE® Luer Access Device (LAD): 7- Day Microbial Barrier Performance, B. Braun Medical Inc., Bethlehem, PA., 15-5669 SW, 2017

12. Guidelines: Infusion Therapy Standards of Practice, page 152 published in Journal of Infusion Nursing (January/February 2016, Volume 39, Number 1S)

13. Study: Efficacy of a "saline only" flush protocol utilizing the Ultrasite® positive displacement device. Susan Silverstein, RN, CRNI, Nurse Consultant, Omnicare Infusion Services of Northern Illinois, January 2003

14. Study: Journal of Vascular Access Devices, Volume 5, Issue 4, 2000, Page 31-33, The effects of positive pressure devices on catheter occlusions, Loretta Berger RN, CRNI

15. Engineering data on file.



Caresite® Luer Access Device

Needle-free access for Infusion Therapy

B.Braun Melsungen AG | Hospital Care | 34209 Melsungen | Germany
Tel. +49 5661 71-0 | www.bbraun.com



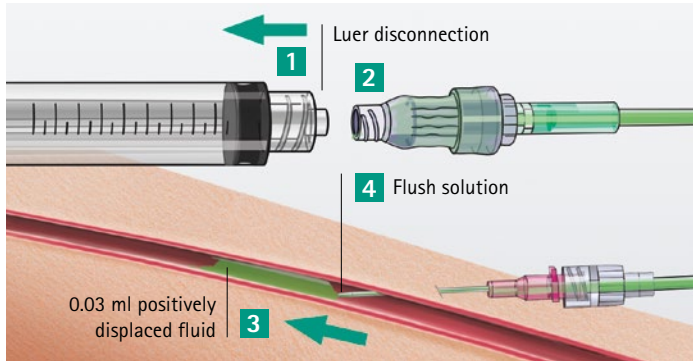
For more information, please scan the QR-code or visit:
www.bbraun.com/en/products-and-therapies/b-braun-for-safety.html

Caresite® Luer Access Device

Needle-free Luer Access Device with positive displacement feature

| Caresite® Luer Access Device Performance Data ¹ | |
|--|---------------------------|
| ▪ Fluid Displacement | 0.03 ml (positive) |
| ▪ Durability (# accesses tested) | 1000 |
| Only for Luer Access Device (straight valve*): | |
| ▪ Flow rate | 208 ml/min |
| ▪ Pressure resistance | up to 400 psi @ 15 ml/dVT |
| ▪ Low priming volume** | ! \tilde{Z} " ^] |
| ▪ Low retained volume** | ! \tilde{Z} ! & ^] |

Product benefits



* REF 415122-01 and 470100-01, ** compared to other positive displacement Luer Access Devices


| Product features (all Caresite® configurations) | |
|---|---|
| ▪ Closed System ^{2, 3, 4, 5} | ✓ |
| ▪ Needle-free System ^{6, 7} | ✓ |
| ▪ Split septum valve technology | ✓ |
| ▪ Latex-free, DEHP-free | ✓ |
| ▪ Blood / Lipid compatible ^{8, 9, 10} | ✓ |
| ▪ Luer-Lock / Luer-Slip compatible | ✓ |










- Helps to reduce microbial and chemical contamination^{2, 3, 4, 11}**
- Swabbable valve forms a closed system as it is designed to prevent microbial ingress and the escape of contaminants^{2, 3}
 - Smooth, swabbable surface (easy to clean)^{3, 11}
 - Clear design (easy to visually inspect)
 - Self sealing valve helps to prevent spillage and drug exposure⁴

- Designed to reduce the risk of catheter occlusion^{1, 12, 13, 14}**
- Positive displacement (valve design)
- 1 | Luer disconnection
 - 2 | Valve is closing automatically
 - 3 | 0.03 ml positively displaced fluid
 - 4 | Flush solution inside the catheter tip




- Ease of use**
- High pressure resistant, suitable for use with power injectors* which allows more flexibility
 - Ergonomic design provides easy access by allowing a good grip and easy connection¹⁵
 - Drug compatible, tested with blood and lipids

| Caresite® | Description | Length (cm) | Priming volume (ml) | Tubing inner ø (mm) | Units (pcs.) | Code No. (REF) |
|---|--|-------------|---------------------|---------------------|--------------|----------------|
|  | Luer Access Device (high pressure resistant up to 400 psi for power injectors) | - | 0.22 | - | 200/100**** | 415122-01 |

Caresite® extension sets

| | | | | | | |
|---|---|----|-----|-----|-----|-----------|
|  | Smallbore extension set with Caresite®, Spin-Lock (high pressure resistant up to 300 psi for power injectors) | 20 | 0.5 | 1.3 | 100 | 470100-01 |
|  | Standard bore extension set with Caresite®, Spin-Lock | 15 | 0.9 | 2.8 | 100 | 470108-01 |
|  | Bifurcated smallbore extension set with 2 Caresite®, Spin-Lock | 18 | 0.9 | 1.3 | 50 | 470106-01 |
|  | Smallbore double extension set with 2 Caresite®, 2 back-check valves, Spin-Lock | 22 | 1.6 | 1.3 | 100 | 470182 |
|  | Smallbore triple extension set with 3 Caresite®, Spin-Lock | 20 | 1.3 | 1.3 | 50 | 470160 |
|  | Smallbore triple extension set with 3 Caresite®, 3 back-check valves, Spin-Lock | 22 | 2.0 | 1.3 | 50 | 470161 |
|  | Standard bore extension set with female and male Luer-Lock connectors, back-check valve, and Caresite® 10 cm above distal end | 23 | 1.5 | 2.8 | 50 | 470183 |

IV administration sets with Caresite®

| | | | | | | |
|---|------------------------------------|-----|------|-----|-----|----------|
|  | Intrafix® Primeline with Caresite® | 180 | 20.5 | 3.0 | 100 | 4062158C |
|  | Intrafix® SafeSet with Caresite® | 210 | 22.6 | 3.0 | 100 | 4063004C |
|  | Intrafix® SafeSet Type Flush | 180 | 22.0 | 3.0 | 25 | 4110000 |

**** dispenser box