

K-Zero®Neutral displacement connector







Designed to enhance safety for you and your patients. Helps to reduce the potential for catheter occlusions and prevents needlestick injuries.



Please see the Instructions for Use for a full list of warnings and precautions associated with this device.

K-Zero®

Neutral displacement connector

Designed to minimize entry points for bacteria between the connector's external surface and internal fluid path upon activation.

Helps to minimize the risk of bloodstream infections.



Effective disinfection¹

Tight seal between septum and housing. Smooth surface without any gaps or openings - easy to swab



No microbial ingress¹

Split septum closes tightly after activation preventing entry for bacteria



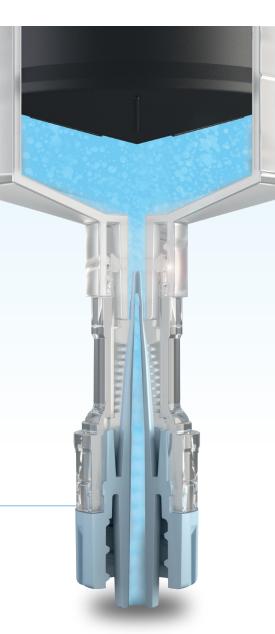
May prevent contamination

Concave septum entry is designed to help prevent syringe tip slip-off and potential contamination



Low flushing volumes^{2,3}

Straight fluid path offers zero dead space. Minimal residual volume allows for effective flushing - lower risk of blood stream infections







Your solution for improved safety and ease of use - designed for you and your patient

Low risk of catheter occlusions³ - neutral displacement prevents blood reflux while connection/ disconnection of a syringe

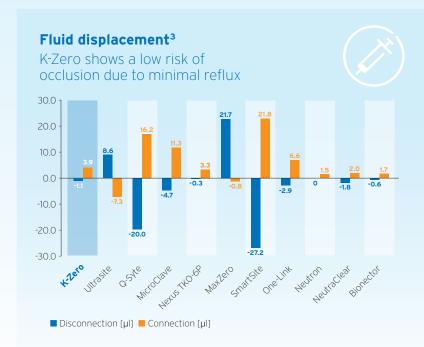
Closes automatically after disconnection⁴ - provides a safe and effective microbial barrier to reduce the risk of catheter-related bloodstream infections

Versatile - can be used on peripheral or central venous catheters for the administration of blood, blood components, parenteral nutrition, fluids, and drugs

MR/CT compatible4 -

K-Zero does not contain any metallic or ferromagnetic components and is suitable for contrast power injections

No clamping technique required - neutral displacement is eliminating the need for any clamping



Microbial Ingress Study¹

Simulation of repeated access and the use of the device in a clinical setting to evaluate the microbial ingress over a seven-day period.

Inoculation with 4 microbes which are associated with blood stream infections.

Each device was repeatedly accessed, disinfected and flushed with saline to simulate a worst-case test scenario with more than 300 activations per device over a period of 7 days.

All test devices were negative for recovered test organism. The microbial ingress test shows that the applied disinfection is effective on K-Zero.

S. aureus, S. epidermis, E. coli & P. aeruginosa				
	Test Devices 1-48 (12 per bacteria type)	Positive Controls	Negative Controls	
Day 1	O CFU	+/+	O CFU	
Day 2	O CFU	+/+	O CFU	
Day 3	O CFU	+/+	O CFU	
Day 4	O CFU	+/+	O CFU	
Day 5	O CFU	+/+	O CFU	
Day 6	O CFU	+/+	O CFU	
Day 7	O CFU	+/+	O CFU	

Performance specifications^{3,4}

Fluid displacement	-1.1 µL at disconnection,	
,	+3.9 µL at connection	
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Priming volume	0.07 mL	
Flushing volume	2 mL	
Flow rate	125 mL/min	
Pressure, power injection	325 PSI (17 bar), 10 mL/s	
Usage	7 days or up to 300 activations	
Blood compatible	Yes	
Lipid compatible	Yes	
Materials	Silicone, MABS, Copolyester	
Not made with natural rubber latex	Yes	
Not made with DEHP	Yes	
Compatible with Luer Lock and Luer Slip	Yes	
MR/CT compatible	Yes	
Straight fluid path	Yes	
Dead space (e.g. edges, barriers in the fluid path which particles could stick to)	None	

Ordering information

Product description	Article number	Case quantity
K-Zero®	M79400849	400 pcs



References

- 1. Performance data on file at Fresenius Kabi Microbial Ingress Testing (TD-TR-004983, DHF-EXD-004518)
- 2. Performance data on file at Fresenius Kabi Blood clearing analysis (DHF-EXD-004518)
- 3. Performance data on file at Fresenius Kabi internal study (DHF-EPB-006023)
- 4. Performance data on file at Fresenius Kabi internal test data (DHF-DVEB-005026)

