

Infuvalve®

# Back-check valves

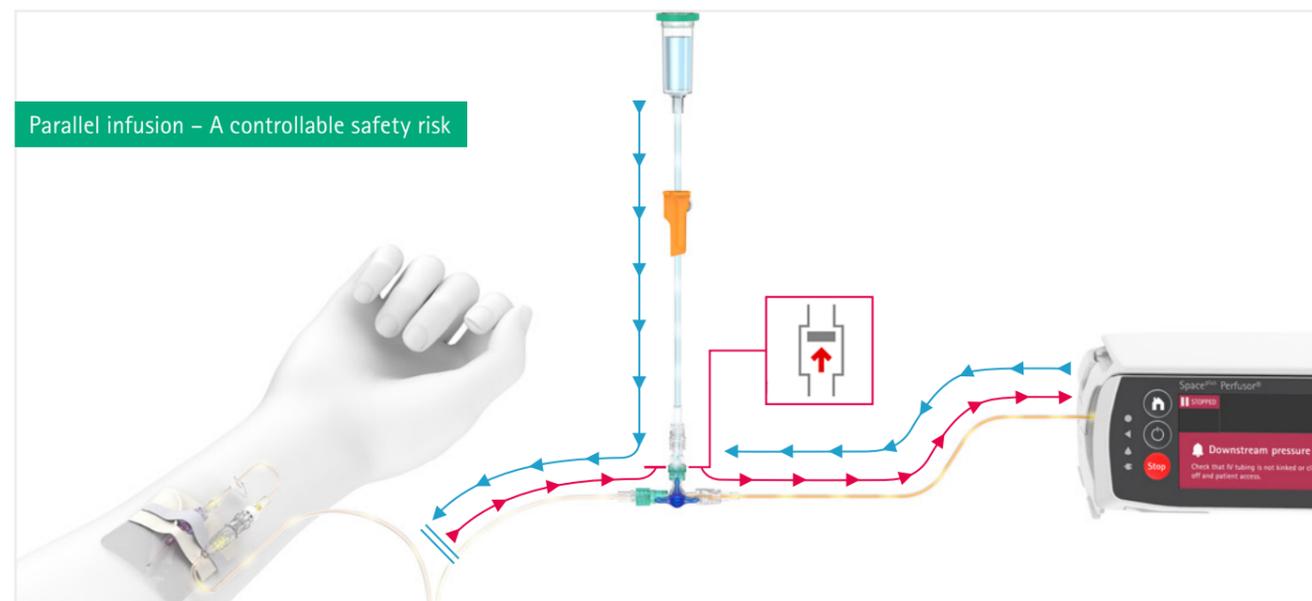
New: B. Braun's only drug resistant  
back-check valve

**B|BRAUN**  
SHARING EXPERTISE



## Back-check valves

Prevent backflow into infusion lines



A back-check valve prevents reflux of infusion solution during parallel infusion. It is an effective technical precautionary to raise safety to complex infusion systems.

Simultaneous infusion of multiple IV solutions, specifically in combination of gravity with pump lines, is a rather common practice. Technical risks associated with this infusion method are often unknown to the users or underestimated and the alarming functions of pumps are overestimated. Complications can be caused by missing or not correctly placed back-check

valves<sup>1</sup>. Typical risks are e. g., under-dosage to patient, backflow into gravity line and container and bolus infusion after corrective action<sup>2</sup>. Critical complications could occur in understaffed, less monitored therapy situations. As a control device a back-check valve is the minimum requirement when administering gravity infusions and pump infusions in combination.

### B. Braun offers reliable back-check valves, which prevent backflow of fluid and blood into the infusion line

- Perform against over- and under-dosage as well as against bolus infusions
- Form a reliable tight seal in the event of the infusion stopping or a pressure build-up against the direction of flow
- Design enables easy access for luer slip and luer lock connections
- Double-sided protective caps enable contamination-free handling by the user



## Infuvalve® C – Drug resistant solution

Utilize materials that matter – Made with drug resistant material

Conventional valves are often made of materials, which are not resistant against all substances. Drugs with high PH-value, fat emulsions, disinfection routine etc. in combination with frequent manipulation can stress IV accessories severely that critical damage occurs.

Infuvalve® C is drug resistant and therefore is designed to prevent the risk of leakage and chemical contamination, microbiological contamination and air embolism resulting from stress cracks.

Infuvalve® C has been tested with different kinds of drugs, which are known to cause stress cracking.<sup>3</sup>

The use of Infuvalve® C in hospital routines helps to prevent the hazards and the need for continuous monitoring associated with stress cracking that was previously observed with conventional needleless connectors.

**Infuvalve® C provides an increased level of safety.**

### Product specification summary

	Infuvalve®	Infuvalve® C
	For standard solutions 	For specific drugs 
Flow rate at gravity <sup>1</sup>	≥ 100 ml/min	≥ 100 ml/min
Counterflow pressure resistance	2 bar	5 bar
Priming volume	0.20 ml	0.18 ml
Not made with DEHP, PVC, BPA or latex	Yes	Yes
Drug resistant	No	Yes
Material	SAN, MABS	Tritan, MABS
MRI safe	Yes	Yes
Leakage rate <sup>2</sup>	≤ 0.1 ml/h	≤ 0.1 ml/h
Opening pressure	≤ 20 mbar	≤ 15 mbar
Interval for routine replacement <sup>3</sup>	7 days	7 days

<sup>1</sup> according to DIN EN ISO 8536-12 (distilled water) <sup>2</sup> with 20 mbar retrograde pressure <sup>3</sup> always consider national guidelines or hospital protocols

### Ordering information

Back-check valves	Description	Units (pcs.)	Code No. (REF)
Infuvalve® C	Back-check valve for applications with specific drugs	50/500	4094000C
Infuvalve®	Back-check valve for applications with standard solutions		4094000N

**Literature:**

1. Hahnenkamp C et al. (2013) CIRS-AINS Spezial: Das Rückschlagventil im Infusionssystem– ein kleines Detail für mehr Patientensicherheit? ZEFQ, 107(6):423–427. <https://doi.org/10.1016/j.zefq.2013.07.006>
2. Gorski L. et al. (2021) Infusion therapy standards of practice. Journal of Infusion Nursing, 44(1S): S70.
3. White paper on file



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