

# Infuvalve<sup>®</sup>

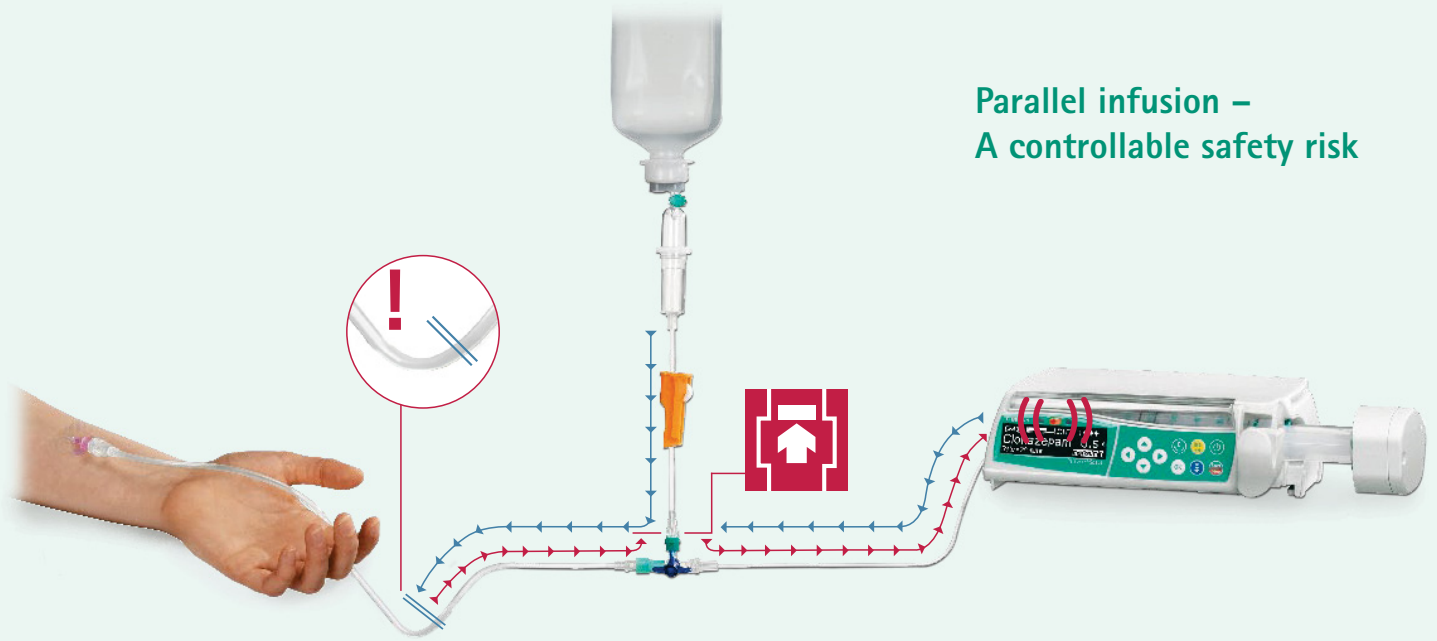
Reliable Back Check Valve against Fluid Backflow during IV Therapy



Fluid administration

# Infuvalve® Back Check Valve

An effective technical precautionary measure to raise safety of complex infusion systems



Parallel infusion –  
A controllable safety risk

## Worrisome parallel use of multiple infusion lines

Simultaneous infusion of multiple IV solutions, specifically in combination of gravity with pump lines, today is a rather common practice in hospitals. Technical risks associated with this infusion method are often unknown to the users or underestimated and the alarming functions of pumps are overestimated.

Examples of typical risks aligned with accidentally occlusion of the infusion line to the patient:

- Under-dosage to patient
- Backflow into gravity line and container
- Bolus infusion after corrective action
- Prolongated alarm reaction of pumps
- Rupture of tubing etc.

Critical complications mainly in all understaffed, less monitored clinical situations. As a control device a Back Check Valve is the minimum requirement when administering gravity infusions and pump infusions in combination.

## Infuvalve® Global Product Portfolio

	Product name	Without air vent	With built-in air vent	length of tubing (approx. cm)	Code No. (REF)
<b>DEHP-/ Latex-free</b>	Infuvalve® Back Check Valve for parallel infusions	■			409 4000N
	Intrafix® Primeline, Infuvalve® B.C.V.*		■	180	406 3287
	Intrafix® SafeSet, Infuvalve® B.C.V.*		■	180	406 3001

Sales units.: Intrafix® Primeline 100 pcs, Infuvalve® 50 pcs

\* B.C.V. = Back Check Valve

In the event of an occlusion of the patient line, the Back Check Valve prevents reflux back into the gravity infusion. The pressure build-up in the system triggers an alarm in the infusion pump. The following risks can be minimized significantly:

- unidentified interruption of the infusion (underdosing);
- Bolus infusion after the interruption is over (overdosing)
- and improper flow due to mutual interactions between the two infusion types.

**Reference:**

Hinweise zur Anwendung von Parallelinfusionen [Notes on the Use of Parallel Infusions] – „Die Schwester/Der Pfleger“, Reprint from Issue 9, Vol. 32, September 1993.

### Infuvalve® Back Check Valve

Responsive even at low flow rates

DEHP-/  
Latex-free



- Forms a reliably tight seal in the event of the infusion stopping or a pressure build-up against the direction of flow.
- Prevents retrograde flow into the gravity infusion so that it acts like a pressure alarm for the parallel infusion pump.
- Prevents the regurgitation of blood, especially for mobilized patients.

### Back Check Valve on Demand

- To connect according to individual, situational requirements. Cost saving.
- Easy and correct installation with the flow direction markings on the connector.
- Contamination-free handling ensured by double-sided protection caps.

#### Performance data

Min. closing flow  $\leq 0.1$  ml/h

Opening pressure  $\leq 20$  mbar

Flow rate  $> 90$  ml/min G 40 %

Flow rate reduction  $\approx 18$  %

Burst pressure 6 bar

**Caution:** Does not prevent air entrainment – therefore must be capped!  
Does not retain microorganisms.

## User benefits

- A normally closed valve, to be opened with low pressure
- Prevents backflow of fluid/blood into IV infusion line
- Performs against over- and under-dosage as well as against bolus infusions
- Maintains alarm function of pumps
- Functioning in all positions



**Optional ready-to-use  
integrated into Intrafix®  
IV Administration Sets**  
Universal administration  
set for gravity and pressure  
infusions with Back  
Check Valve integrated  
in patient connector.