R-LOCK with integrated CODAN Check Valve

Male Luer-Lock adapter with integrated CODAN Check Valve

Double Y-site connector with integrated CODAN Check Valve

Y-site with integrated CODAN Check Valve

Inline CODAN Check Valve

Y-site connector with integrated CODAN Check Valve

Female Luer-Lock adapter with integrated CODAN Check Valve

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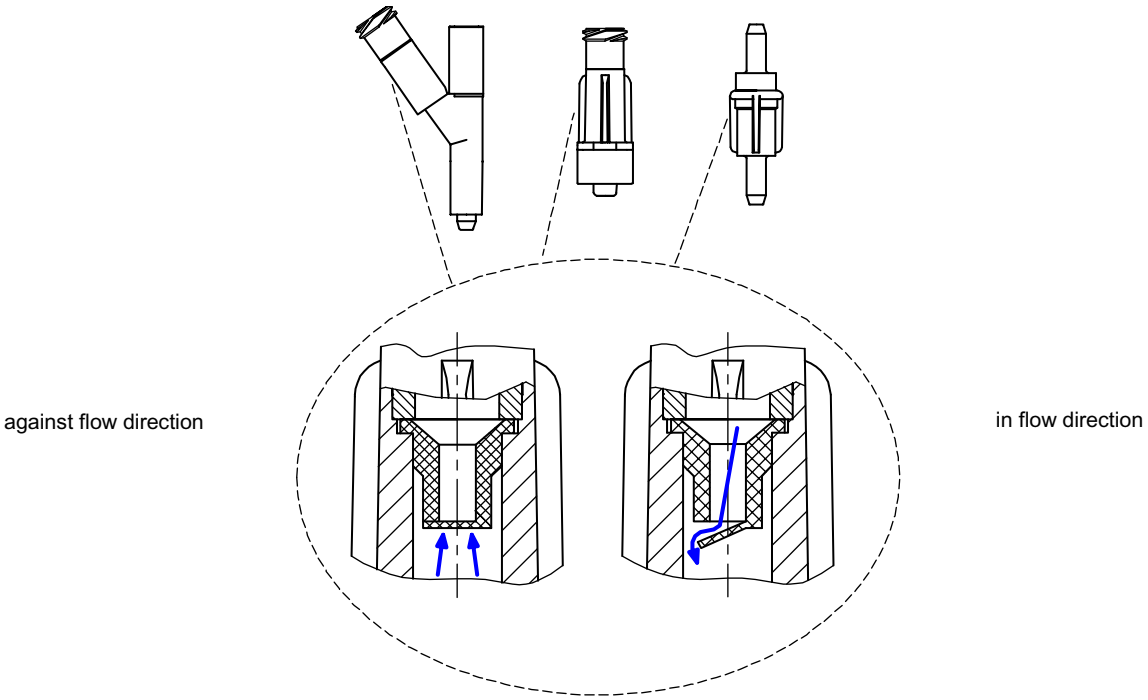
Technical data (typical values)

- Minimum closure flow 0,1 ml/h*
  (required flow to close the valve – against flow direction)
- Flow reduction 34%* (see enclosure 1 for more information)
- Opening pressure 0,75 kPa (7,5 cm water column), max. 2,0 kPa (20 cm water column)
- Pressure resistance 200 kPa, 15 minutes, 40°C water temperature (ISO 8536-12)



cross-section of a CODAN Check Valve

The CODAN Check Valves were mainly developed for the infusion technology to prevent backflow of solution, e.g. parallel infusion.

The CODAN Check Valves are already open at a minimal flow rate in flow direction.

A closure plug is to be used, if the CODAN Check Valve is not in use.

*depending on the medium used

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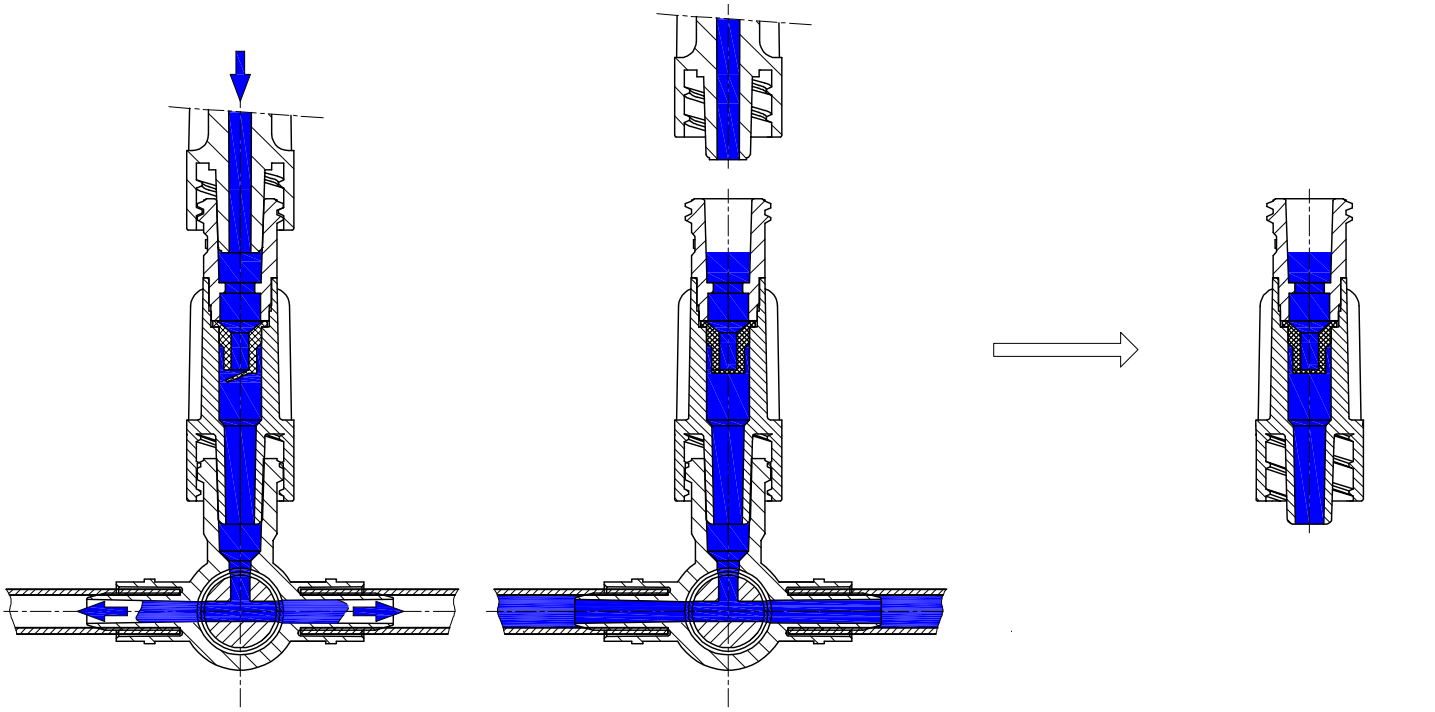
R-LOCK

The CODAN R-LOCK adapter with integrated check valve is equipped with a Male and a Female Luer-Lock connector. The product complies with the physical, chemical and biological requirements of the standard ISO 8536 part 12 (Infusion sets for medical care – check valves).
The CODAN R-LOCK prevents any backflow of solution and can be connected with any kind of infusion sets, extension lines, 3-way stopcocks/manifolds and single use syringes. In order to avoid air entrainment, the CODAN R-LOCK has to be capped after use.

For gravity and pump infusions, compatible in combination with volumetric and syringe pumps with a max. occlusion pressure alarm of < 200 kPa according to the standard ISO 8536 part 8 (Infusion equipment for medical use – Part 8: Infusion equipment for use with pressure apparatus).



fill (prime) e.g. with syringe MLL | disconnect | priming volume = 0,15 ml*

representation of priming volume of R-LOCK - exemplary

*depending on the medium used

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This product information can be applied to following part numbers:

Male Luer-Lock adapters
REF 13.2658
REF 13.4503
REF 13.4504
REF 13.4505
REF 13.4506
REF 13.4554
REF 13.4556

Y-injection sites
REF 16.3411
REF 16.3444

Y-sites
REF 16.3417
REF 16.3420
REF 16.3431
REF 16.3434

Double Y-sites
REF 16.3442
REF 16.3443
REF 16.3445
REF 16.3446
REF 16.3447

Inline check valves
REF 16.4506
REF 16.4509
REF 16.4515

Female Luer-Lock adapters
REF 18.4600
REF 18.4601
REF 18.4603
REF 18.4606

R-LOCK
REF 16.5250

Disclaimer:
The above is indicated only for information. This document is not a specification. The values given are typical and subject to the usual fluctuations. Please follow the instruction for use by the medication manufacturer and the actual SPC (Summary of Product Characteristics). Common hygiene measures and working methods are to be followed at all times.

Subject to alterations without prior notice!

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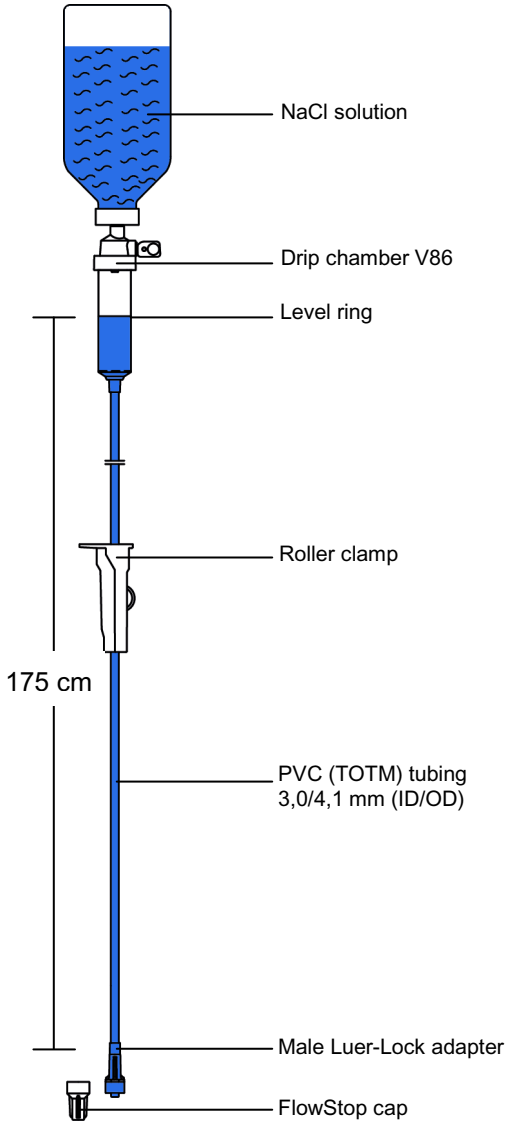
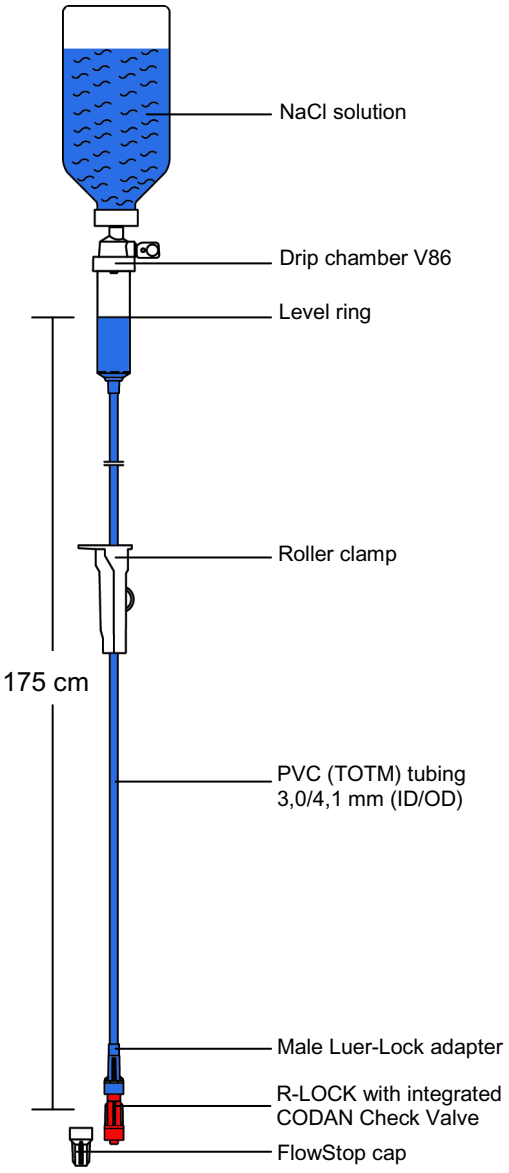
Enclosure 1 – Test procedure to determine the flow reduction

Test devices: **REF 43.4270 (Infusion set V86-P)**
REF 16.5250 (R-LOCK with integrated CODAN Check Valve)

Test procedure:
To enable a direct comparison of the administration with and without an integrated CODAN Check Valve, we administer at first NaCl solution with a standard infusion set V86-P (see picture below on the left side) for a period time of one minute. Result of the flow rate -> 198,3 ml/minute.

Afterwards we did this administration procedure again but with several R-LOCK in addition at the end of the infusion set V86-P (see picture below in the right side) also for a period time of one minute.
Result of the average flow rate -> 130,8 ml/minute.





Conclusion:
The implementation of the above test procedure shows a flow reduction of 34% with an integrated CODAN Check Valve.

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