

Check-Flex® RESI-SSL Inline Check Valve Installation Manual

Universal Fitting the Check-Flex® RESI-SSL inline valve can be installed in either the inlet or discharge outlet of a manhole.

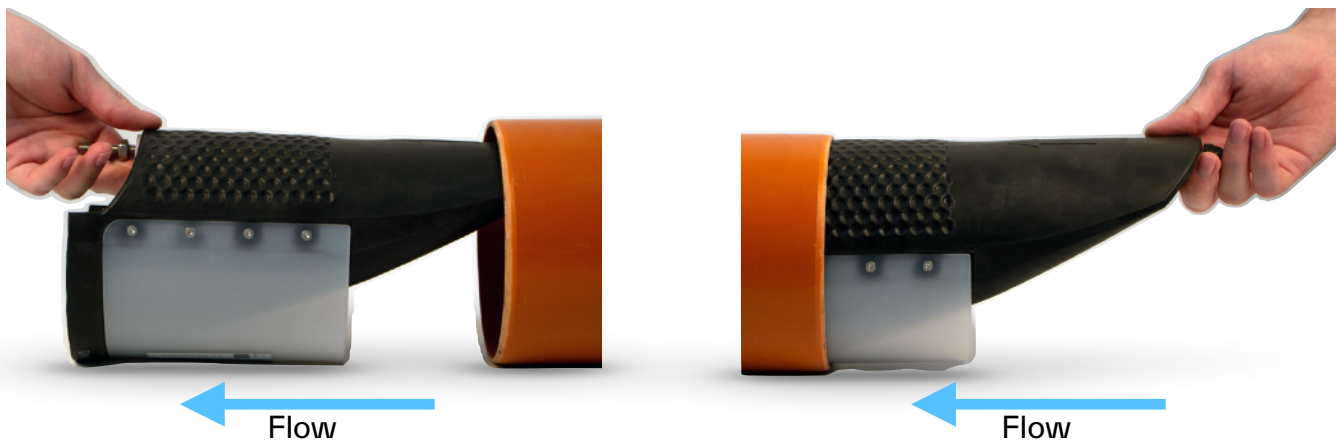
Simple clamp design the expanding clamp secures the valve to the pipe.

The Check-Flex® RESI-SSL inline valve seals directly to the pipe and can even be recessed.

No drilling or flat wall surface is needed.

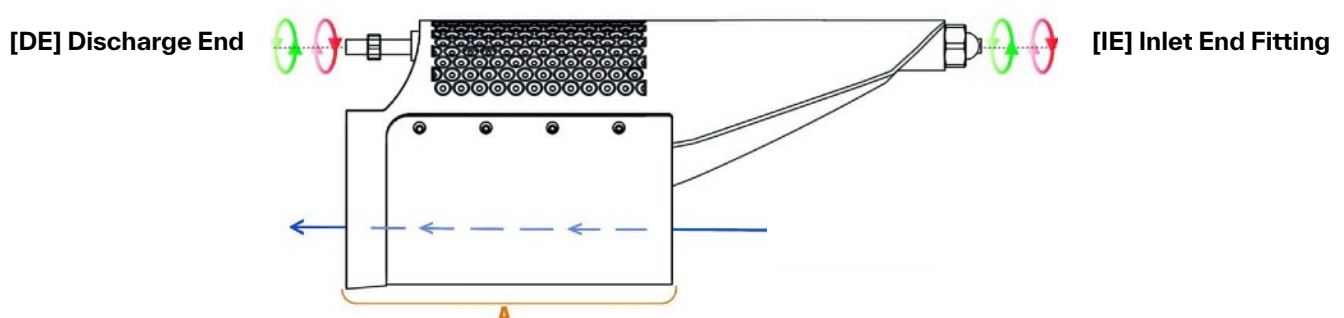
Unique Seal to Pipe the lower half of the EPDM meets and seals directly to the pipe. No collars or gasket required.

The small step of the PP cuff locks the seal in place and delivers a high 10m back pressure rating with the lowest headloss in an inline valve.



Universal Fitting: [DE] Discharge End

Universal Fitting: [IE] Inlet End



[DE] Discharge End Fitting

- Turn the screw clockwise to tighten and expand the valve fitting to the pipe
- Turn the screw anticlockwise to loosen and contract the valve allowing for insertion or removal

[IE] Inlet End Fitting

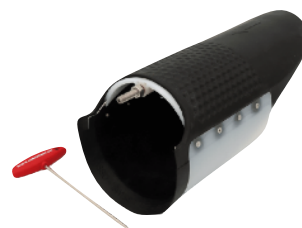
- Turn the screw anticlockwise to tighten and expand the valve fitting to the pipe
- Turn the screw clockwise to loosen and contract the valve allowing for insertion or removal



Installs in minutes

See how the **Check-Flex®** RESI-SSL valves work.

[Go to Product Video](#)



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Installation Checklist

The Check-Flex® RESI-SSL inline valve is very versatile and installation is possible from both sides; with flow or against flow i.e. inlet end or discharge end. The Check-Flex® RESI-SSL inline valve is installed in horizontal pipes and is marked with a flow direction arrow label on the top of the valve to ensure proper installation orientation within the pipe, vertical installation is possible in storm rainwater pipes.

Minimum pipe gradient for use in waste water

- Constant slope of 2% upstream of the valve is required for wastewater and domestic wastewater pipes
- Constant gradient of 1% is sufficient for storm / rainwater.

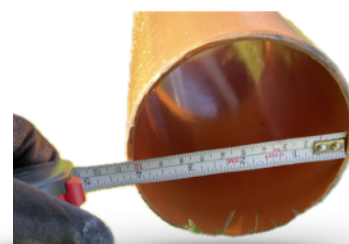
Measure the Inside diameter of the pipe where the valve is to be fitted

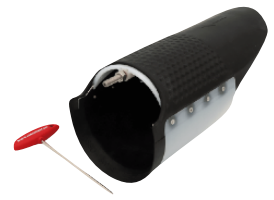
It is important to measure the pipework so that Check-Flex® RESI-SSL inline valve can be installed with a snug fit.

Sewer pipes can often become out of round over the years due to compaction of soil. It is therefore important to measure both the vertical and horizontal inside diameter, in a few points around the pipe ID circumference, to take consideration for minimum and maximum pipe inside diameter dimension.

The clamping range of the Check-Flex® RESI-SSL inline valves are outlined in the below table.

| Model | Fits Pipe ID | Headloss | Length | Max BP |
|--------------------|--------------|------------|--------|--------|
| CF-IL-RESI-SSL-80 | 75-80 mm | Stormwater | 180mm | 10m |
| CF-IL-RESI-SSL-100 | 93-101 mm | EN13564-1 | 215mm | 10m |
| CF-IL-RESI-SSL-110 | 98-106 mm | EN13564-1 | 230mm | 10m |
| CF-IL-RESI-SSL-125 | 115-125 mm | EN13564-1 | 270mm | 10m |
| CF-IL-RESI-SSL-150 | 145-154 mm | EN13564-1 | 330mm | 10m |
| CF-IL-RESI-SSL-200 | 183-197 mm | EN13564-1 | 420mm | 10m |

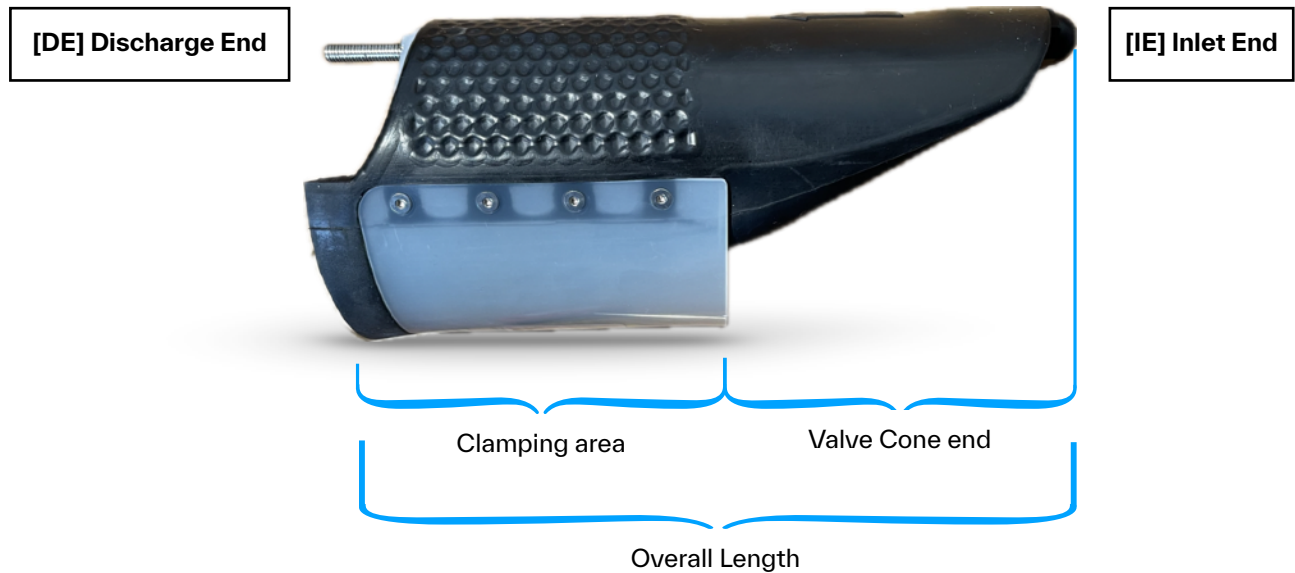




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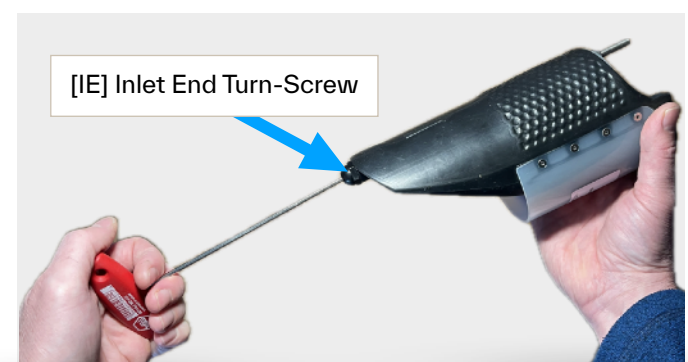
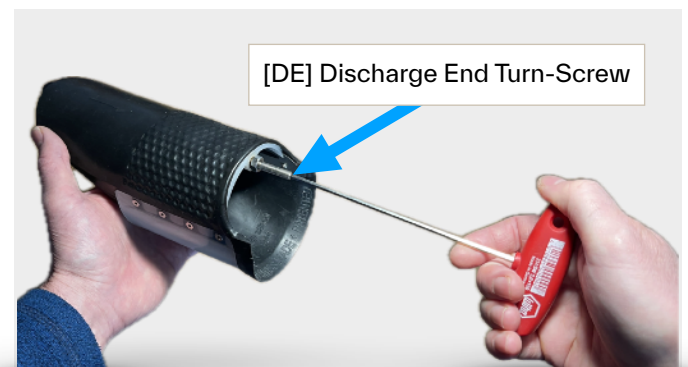
Valve markings & Orientation

Familiarise yourself with the Check-Flex® RESI-SSL inline valve markings and orientation pre-installation.



When fitting from the Inlet End, at least the clamping area section of the valve must be inserted into the pipe to ensure proper clamping and fixing to the pipe.

When fitting from the Discharge End, the entire valve overall length must be inserted so that the diaphragm can seal to the pipe.

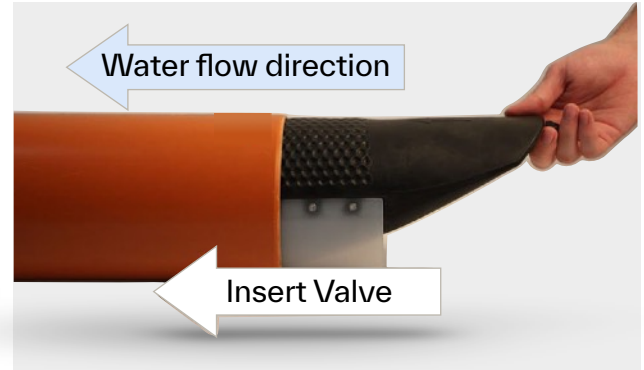
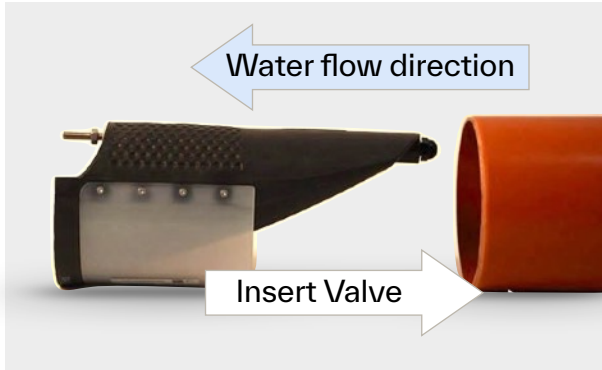




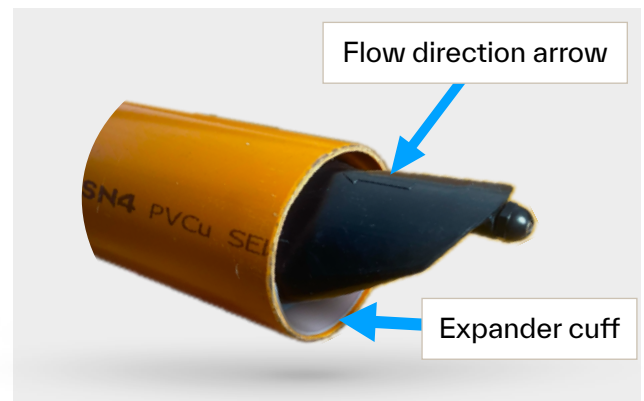
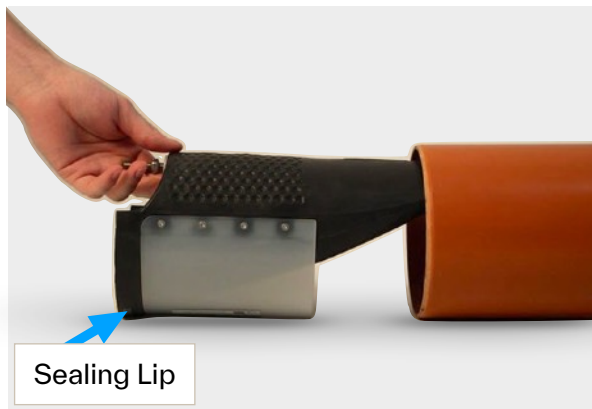
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[DE] Discharge End

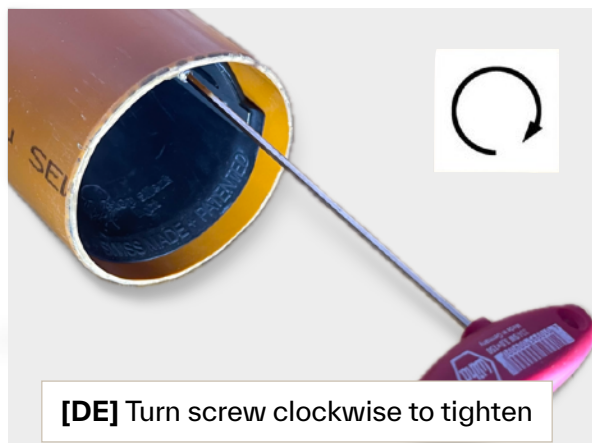
[IE] Inlet End



Before installation, loosen the clamping mechanism via the bolt turn-screw and moisten the valve surface with soapy water
[DE] turn anticlockwise to loosen, **[IE]** turn clockwise to loosen



Insert valve until the sealing lip fits completely inside the pipe, the top of the valve is marked with a flow direction arrow
 When inserted correctly, the valve should sit completely within the pipe as shown in pictures below.



[DE] Turn screw clockwise to tighten



[IE] Turn screw anticlockwise to tighten

Tighten the screw in direction of the arrow with the hex key tool supplied with the valve.
 To guarantee optimal functioning, the bolt turn-screw should be positioned in the top centre part of the pipe.

Check-Flex® RESI-SSL Inline Check Valve Inspection and Maintenance



Foul water Sewage lines

Newly installed valves should be checked for function and sedimentation after 4-6 weeks

The valve should be checked twice a year.

Flush upstream toilet several times while flushing down toilet paper. Observe whether flushed water including paper passes the valve. Check the membrane for brittleness or flexibility. If necessary, clean the membrane with clean water.

Storm water lines

Newly installed valves should be checked for function and sedimentation after 4-6 weeks

The valve should be checked once a year.

Check the membrane for brittleness or flexibility. If necessary, clean the membrane with clean water.

Minimum Slope to ensure good operation

Foul water sewage flows; a minimum constant gradient of 2% before the valve

Storm water flows; a minimum constant gradient of 1% before the valve

IMPORTANT: High-pressure cleaning devices must not be used.



Valve seal inspection

The valve can be easily opened by hand, place fingers under the sealing lip and lift upwards opening the valve to allow inspection.