



Risk Assessment Form

Risk Assessed Activity:

Installation of NRv2 LoFlo by a Water Company – Compliance with Reg 31

Carried Out by:

Richard Leigh BEng CEng MICE, Groundbreaker Systems – Managing Director

Date of Assessment:

10th September 2026

Date of next review:

9th September 2029

Number	What are the Hazards?	Who might be harmed and how?	Risk rating H, M, L	What are you already doing to control the risks?	What further action do you need to take to control the risks?	Revised risk rating H, M, L
	Something with the potential to harm: hazards listed should be all those present before controls are in place.	Where a group of people may be affected differently, for example young people or expectant mothers, identify the separate effects/harm and risk rating.	Indicate the rating prior to controls being in place.	Provide details of control measures already in place. If measures are detailed in other documents, state where.	Note the action required, responsible person and required date.	Indicate the rating following implementation of controls.
1	Installation of the LoFlo product below a water meter could compromise Water Quality - Overview	General Public / Dwelling Occupants.	L	Product meets the requirements of Regulation 31 of the UK's Water Supply (Water Quality) Regulations 2016 under 31(4)(b) – Small Surface Area Products.	Consultation took place with DWI in January 2026 to confirm the approval route. Copies of this correspondence are available on request.	L
2	Installation of the LoFlo product below a water meter could compromise Water Quality – Exemplar Product List	General Public / Dwelling Occupants.	L	The DWI's Reg 31 Advice Sheet 8 , prescribes a list of exemplar products that meet the requirements of 31(4)(b). For NRv2 LoFlo this is covered by two categories (1) Back-flow prevention valves and (2) Water Meters and Associated Fittings	Consultation took place with DWI in January 2026 to confirm the approval route. Copies of this correspondence are available on request.	L

3	Installation of the LoFlo product below a water meter could compromise Water Quality – Contact Risk Score during normal use.	General Public / Dwelling Occupants.	L	The DWI's Reg 31 Advice Sheet 8, prescribes an approval route for products NOT on the exemplar list. For completeness the score for the NRv2 LoFlo product has been calculated: $S = (\pi \times 4.1 \times 2.5) + (\pi \times 2.7 \times 2.5) + (\pi \times 2.0 \times 3.0) = 72.2 \text{ cm}^2$ $V = \pi \times (4.1/2)^2 \times 2.75 = 36.3 \text{ cm}^3$ Assume $t = 0.73$ seconds (time water takes to pass through the product when a washbasin with a flow rate of 3lpm is used). $C = 72.2/36.3 \times 0.73 = 1.45 \text{ sec. cm}^{-1}$ As C is less than 100, it meets the requirements for 31(4)(b).	No action – meets the requirements of 31(4)(b).	L
4	Installation of the LoFlo product below a water meter could compromise Water Quality – Contact Risk Score when Water Stationary in Supply Pipe	General Public / Dwelling Occupants.	L	If water is stationary in the supply pipe the 'C' value will exceed 100 after around 50 seconds has passed.	Consultation took place with DWI in January 2026 to discuss this issue. The DWI confirmed that this is " <i>In much the same way as the water meter itself, which would have a similar surface area, contact volume and contact times</i> ". Copies of this correspondence are available on request.	L
5	Installation of the LoFlo product below a water meter could compromise Water Quality – Odour, Flavour and Microbial Growth	General Public / Dwelling Occupants.	L	The DWI's Reg 31 Advice Sheet 8, notes "<i>For non-metallic materials, meeting the current requirements for odour and flavour and the growth of micro-organisms tests specified in BS6920 parts 2.2.1 & 2.4. is recommended</i>". The NRv2 LoFlo product is certified under KUKReg4 which includes this specific testing suite.	No action – demonstrates compliance with 31(4)(b) recommendations. See: KUKReg4 Certificate.	L

6	Installation of the LoFlo product as a fitting – Contamination of the Water Supply.	General Public / Dwelling Occupants.	L	To ensure compliance with The Water Supply (Water Fittings) Regulations 1999, the NRv2 Product has been fully tested and certified under KUKReg4. All components used in the manufacture of NRv2 LoFlo are WRAS approved.	No action – demonstrates compliance with The Water Supply (Water Fittings) Regulations 1999. See: KUKReg4 Certificate .	L
---	---	--------------------------------------	---	--	--	---

Risk rating

This is **your** evaluation of the potential impact and likelihood of harm occurring.

Risk rating	Action required
High For example, - fatality possible to one or more individuals however infrequent - major injury to few individuals occurring frequently - likelihood of long term muscular-skeletal problems affecting significant numbers of staff.	Immediate action required.
Medium For example, - major injury to one/few individuals occurring infrequently - likelihood of long term muscular-skeletal problems affecting some staff.	Requires attention as soon as possible.
Low For example, minor injury occurring infrequently to few staff.	Not a priority, may need attention if not as low as reasonably practicable.