

# BIN-X System

Water Treatment System for Legionella, other bacteria and particles in potable water.



- ✓ BIN-X provides an optimum barrier against Legionella, other bacteria, as well as particles and biofilm.
- ✓ Removes all particles and reduces calcium precipitation.
- ✓ Automatic flush function – controlled by a plc or electronic timer .
- ✓ Less wear on pumps, valves, pipes, fittings and other components.
- ✓ Environmentally friendly technology – pure mechanical filtration and no chemical handling.
- ✓ The risk of shutdown is avoided in case of possible contamination from water supply, and thus unnecessary additional costs.
- ✓ BIN-X System is approved for drinking water by The Drinking Water Inspectorate (DWI).

BIN-X Systems are widely used in hospitals and large commercial buildings. The system is installed directly after the water supply intake and it ensures that Legionella and other bacteria do not gain access to the hospital's internal water supply.

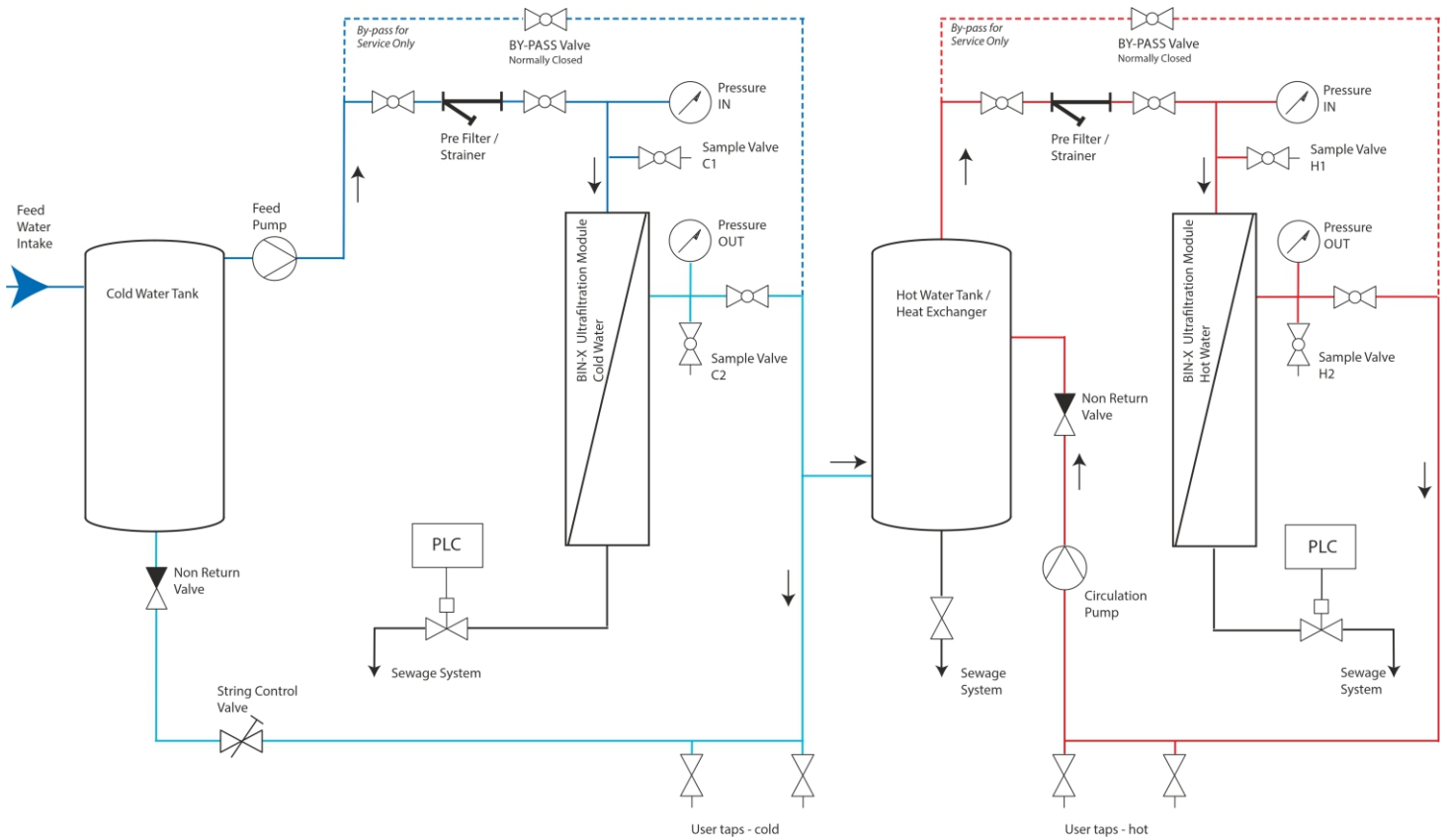
BIN-X Systems can be delivered in many variants: From small systems for single tap use, water coolers, coffee machines, and ice cube machines, and up to large systems that treats all incoming water.



In correct dimensioning, the cost of acquisition, depreciation and operation is less than 10% per filtered m<sup>3</sup> water, and the BIN-X System is virtually maintenance-free, requiring only one annual service visit, where function and membrane density are checked. The specially developed BIN-X membrane is cleaned by an automatic and patented flushing function that rinses waste products at regular intervals to a foul drain. The system has a low energy consumption for electronic control, a moderate water consumption for flushing and works completely without the need for chemicals.

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## Installation overview:



## Model overview:

Type	Capacity	Dimensions in mm
C = cold water, max. 40°C / 6 bar	Volume per hour	Height * Width * Depth
H = hot water, max. 70°C / 5 bar		
UF 23, UF 25 & UF 35	25 - 125 l/hour	376 - 664 * 63 * 63
UF 45 C & UF 410 C	250 - 550 l/hour	820 - 1.400 * 150 * 150
UF 45 H & UF 410 H	250 - 550 l/hour	820 - 1.400 * 150 * 150
UF 410 C2 - C4	900 - 1,800 l/hour	1.750 * 1.300 * 500
UF 410 H2 - H4	900 - 1,800 l/hour	1.750 * 1.300 * 500
UF 610 C1 - C2	1.200 - 2,400 l/hour	1.250 * 200 - 600 * 200
UF 815 C1 - C4	5,000 - 20,000 l/hour	1.850 * 1.720 * 1.010
UF 815 H1 - H4	4,000 - 16,000 l/hour	1.850 * 1.720 * 1.010



Demonstration module of BIN-X System

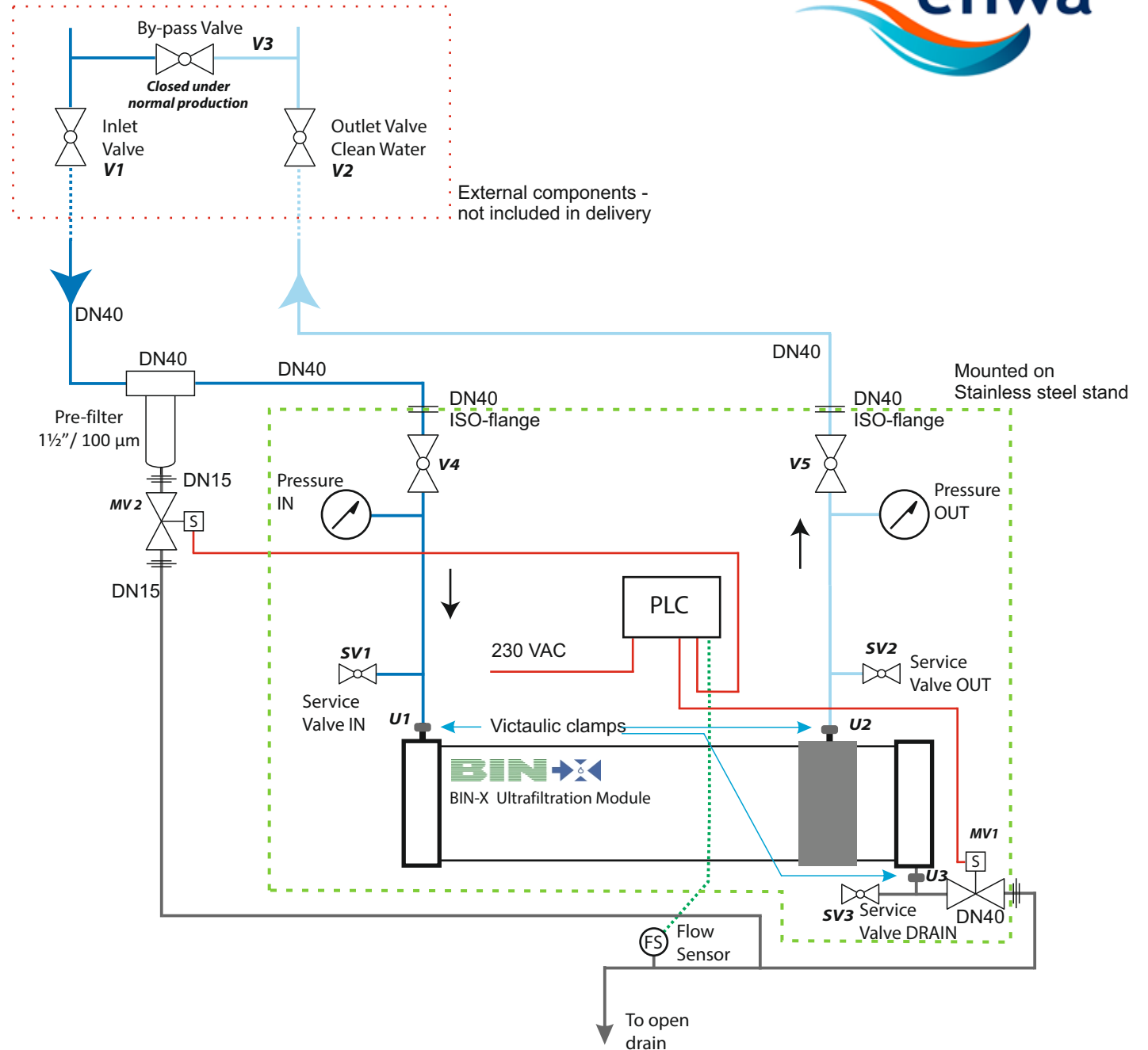
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 The Sidings,  
 Merrylees Industrial Estate,  
 Desford,  
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*Flow rates are approximate and can vary depending on model and specific feed-water quality. Bespoke systems are available to meet specific site flow requirements*

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# Installation Principle

BIN-X System UF 815 C1 / H1

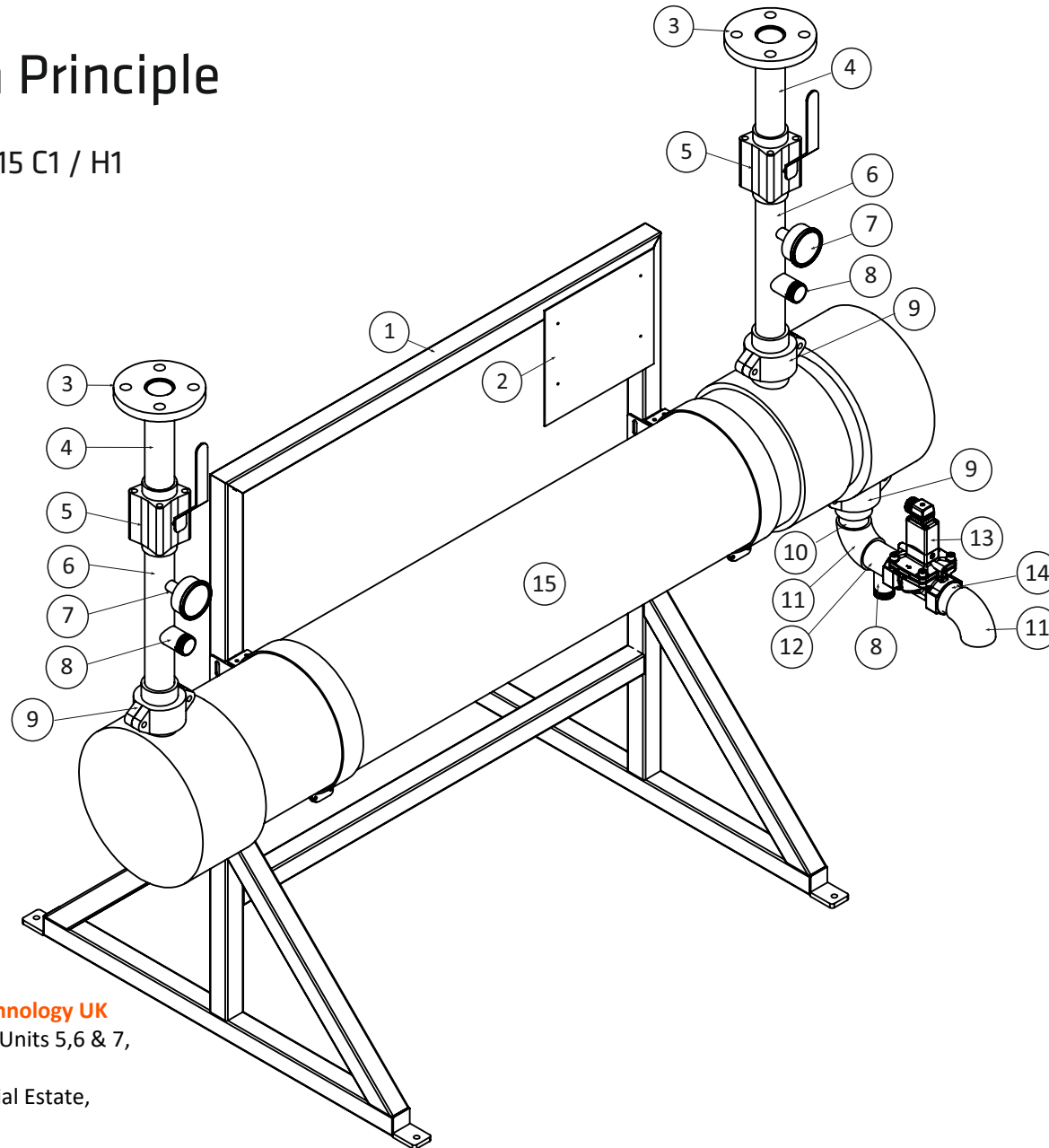


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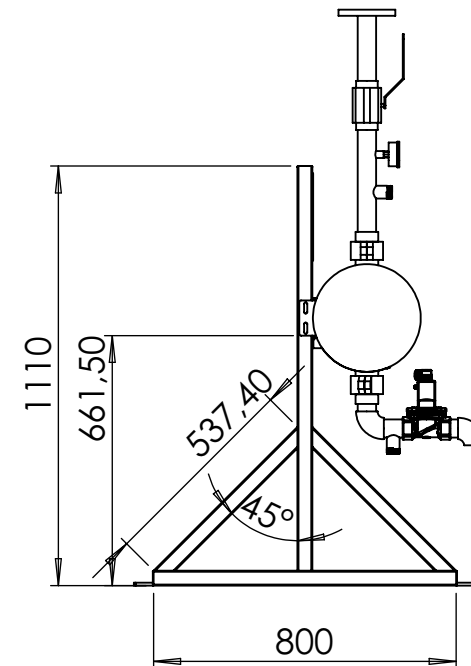
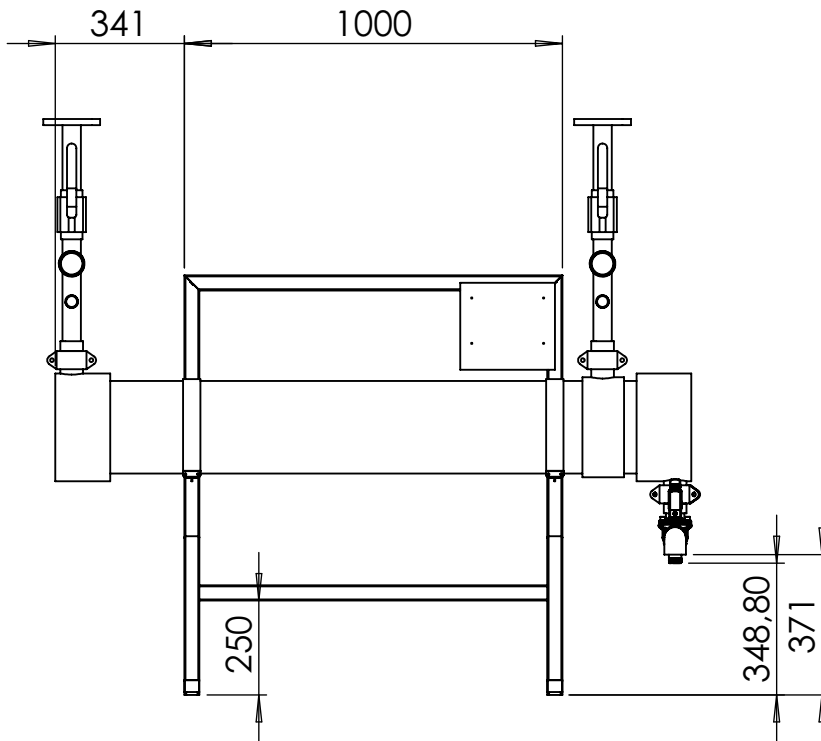
1	Stainless steel mounting frame
2	Mounting plate for plc
3	ISO 40 flange
4	Pipe Ø 48,3x3 L=50
5	1½" DN40 ball valve
6	Pipe Ø 48,3x3 L=400, 2 holes for sockets
7	Pressure gauge Ø 63, 0-6 bar
8	Socket for 1" service valve/sample valve
9	2" Victaulic Style 75 flexible coupling
10	Nipple, Victaulic-48,3 Ø
11	90° elbow
12	Pipe Ø 48,3x3, 1 hole for socket
13	Bürkert 5282 solenoid valve, DN40
14	Nipple DN40
15	BIN-X UF 815 C/H membrane module

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# Installation Principle

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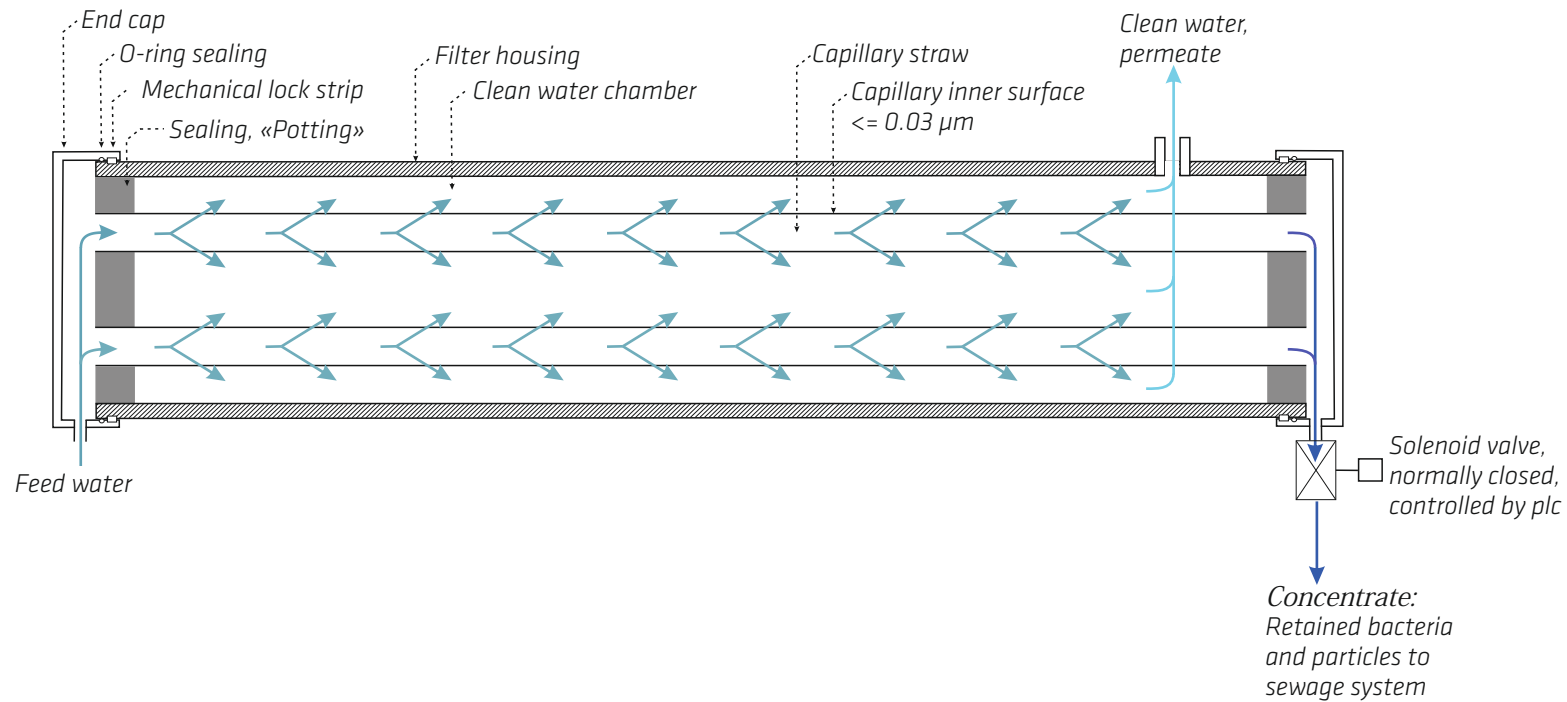
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# Schematic of full water pathway

## BIN-X Ultrafiltration system

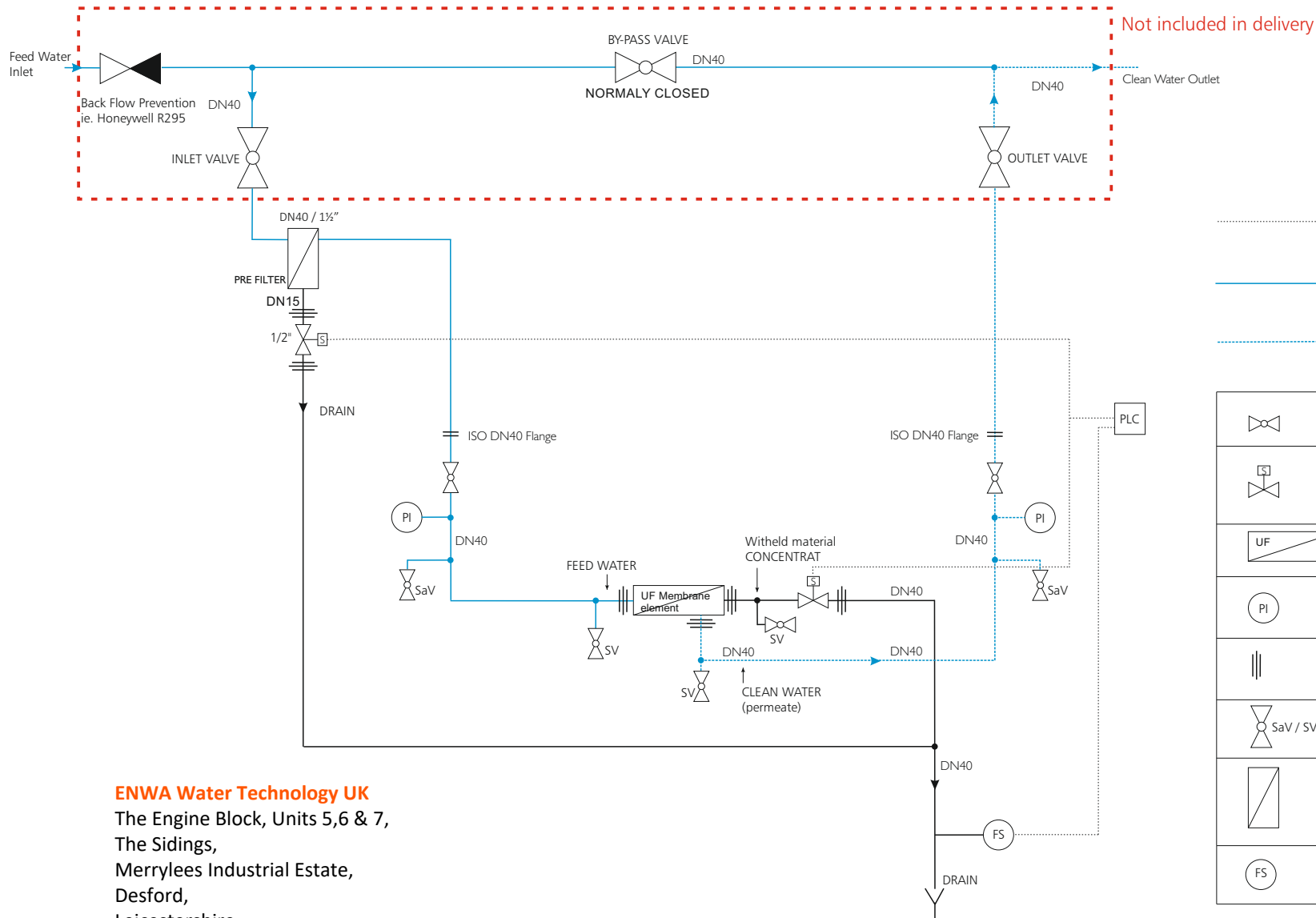


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# PI diagram BIN-X System UF 815 C1 / H1



..... Control wire - PLC  
 ——— Feed water - Water supply  
 - - - - - Clean water (permeate)

	Ball Valve
	Solenoid Valve (normally closed) DN40 1 1/2" Bürkert 5282 DN15 1/2" Bürkert 5282
	Ultrafiltration Membrane Module
	Pressure Indicator
	2" Victaulic adaptor/clamp Style 75 1/2" Union, pre filter
	SaV : DN8 1/4" Sample Valve SV : DN25 1" Service Valve
	Mechanical pre filter (100 μm)
	Flow sensor

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