

APPLICATION NOTE

MONITORING THE EFFICIENCY OF MIXED-BED ION EXCHANGERS

Dual channel conductivity offers maximum productivity and efficiency of the ion exchanger to limit the cost of water treatment acid reagents

Application description

The de-ionized water or ultrapure water can be obtained using a mixed-bed ion exchanger, where cationic and anionic resins are mixed rather than sitting in two different tanks.

Installation recommendations

The Command 1, Argument 2 is selected to obtain the difference and one alarm set is programmed on this difference.

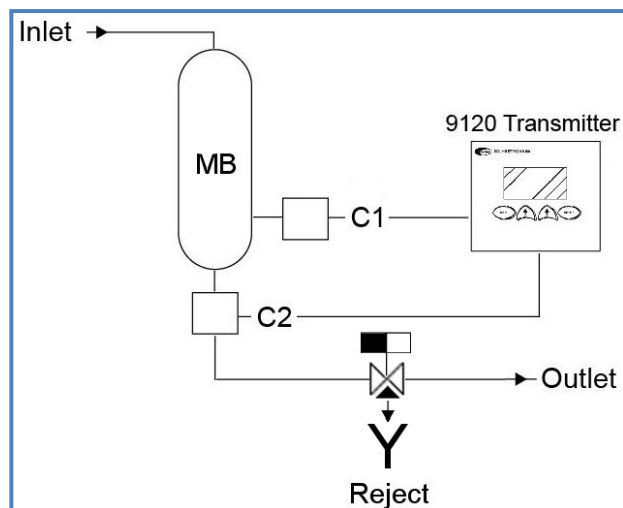
If $C1 > C2$, a relay triggers the regeneration and the 3-way valve rejects the product water for as long as the conductivity, monitored by cell 2, remains too high.

The 3-way valve will be closed as long as the conductivity is not lower (set on channel 1) and the difference is not equal to zero (set on channel 2).

The cell set up is as follows:

Normally $C1 = C2$.

Recommended system components



Model	Description
9523.99.09P2	Dual conductivity transmitter
8310=A=0000	2 electrodes conductivity sensor k=0.01, 3/4 NPT Thread with test certificate. For outlet and/or in bed (probe 8315 can also be used)
9120=A=8010	10m cable and IP65 connector for conductivity probe and 9120/23 (5m and 20m also available)
8318=A=0001	Stainless Steel flow chamber with 1 x 3/4 FNPT bore + 2 X 1/4 FNPT bores

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