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Porosity of spacer-filled channels in spiral-wound membrane systems: Quantification methods and impact on hydraulic characterization

A. Siddiqui, S. Lehmann, V. Haaksman, J. Ogier, C. Schellenberg, M.C.M. van Loosdrecht, J.C. Kruithof, J.S. Vrouwenvelder

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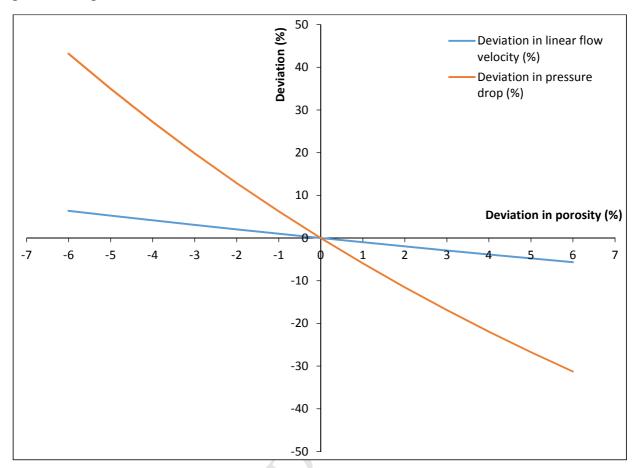
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