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Dynamics of cylindrical particles in the contraction flow of a second-order fluid

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Highlights

- Dynamics of cylindrical particle in a tapered channel of a second-order fluid is first studied.
- Distributions of particle are dependent on inertia, viscoelasticity and effect of confined wall.
- Particles align with the flow direction more obviously than the case in the Newtonian fluid.
- Effects of St, De, aspect ratio and contraction ratio on particle distribution are discovered.

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