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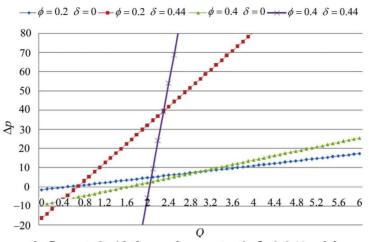


Figure 2.Pressure drop Δp versus the flow rate Q with the annulus aspect ratio $\delta = 0$, 0.44 and the wave amplitude $\Phi = 0.2$, 0.4.

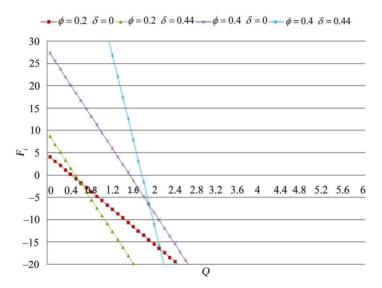


Figure 3. The inner friction force F_i versus flow rate Q with annulus aspect ratio δ = 0.32, 0.44 and wave amplitude Φ = 0.2, 0.4.

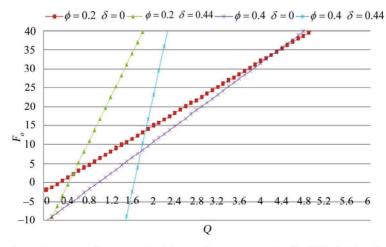


Figure 4. The outer friction force F_o versus flow rate Q with annulus aspect ratio δ = 0.32, 0.44 and wave amplitude Φ = 0.2, 0.4.

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