## Nguyen Duc Huy, Jana Stará On existence and regularity of solutions to a class of generalized stationary Stokes problem

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Abstract: We investigate the existence of weak solutions and their smoothness properties for a generalized Stokes problem. The generalization is twofold: the Laplace operator is replaced by a general second order linear elliptic operator in divergence form and the "pressure" gradient  $\nabla p$  is replaced by a linear operator of first order.

**Keywords:** generalized Stokes problem, weak solutions, regularity up to the boundary **AMS Subject Classification:** 76D03, 76D07, 35Q30, 35J55