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DESCRIPTORS: *Geochemistry, Solutions, Metals,
*Porous filters, Marble, Semipermeability, Pres-
sure, Ion exchange.

With the aid of special apparatus, the filtration effect
was studied for the solutions CuSO_4 , CaSO_4 , MgSO_4 ,
 MnSO_4 , NiSO_4 , Na_2SO_4 , CaCl_2 , and NaCl , filtrating
through a marble filter under a pressure of 2, 4, 6,
and 8 atm. With an increase in pressure there is also
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[DSIR LLU] M 1841.

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DESCRIPTORS: *Fluid flow, Mathematical analysis,
Velocity, Turbulence, *Diffusers, Tests.

The present paper expounds the results of S. M. Targ
for the case of axisymmetric flow with an arbitrary
velocity profile at entry, and it also includes the re-
sults of experiments on the performance of two dif-
fusers with convex and concave velocity profiles at
entry. The analysis indicates that from the point of
view of diffusion losses, it is better to have a convex
velocity profile at the entrance, while from the point
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