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Experimental study of the submerged jet flow from a circular orifice for low values of Reynolds (Re) number. AYAX HERNANDO TORRES VICTORIA, SEPI ESIME Azcapotzalco Instituto Politecnico Nacional, MARIO ALBERTO SNCHEZ ROSAS, JUAN CASILLAS NAVARRETE, FERNANDO ARAGN RIVERA, JOS ALFREDO JIMNEZ BERNAL, ESIME Zacatenco Instituto Politecnico Nacional SEPI, ABRAHAM MEDINA OVANDO, SEPI ESIME Azcapotzalco Instituto Politecnico Nacional — The results of the experimental study of the submerged jet flow emerging from a circular orifice, where the fluid injected and the fluid in the receiving volume are the same, are presented in this work. Velocity vector fields for Reynolds (Re) 2, 4, 6, 8, 10 & 20 were obtained by means of the PIV technique. Similarly, results for the inward flow for the same geometry and Reynolds (Re) numbers are presented. Velocity profile plots and streamlines, for their corresponding Reynolds (Re) value, are also presented.

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