

"Национальный исследовательский университет "МЭИ"
Кафедра Гидромеханики и гидромашин им. В.С. Квятковского

Technical drawing of a shaft with a keyway. The shaft has a diameter of $\varnothing 22$ mm. The keyway has a width of 2.5 mm. The shaft is divided into sections by markers 1 through 12. The dimensions of the sections are: 50 mm (from marker 1 to the start of the keyway), 55 mm (from the end of the keyway to marker 4), 45 mm (from marker 4 to marker 5), 40 mm (from marker 5 to marker 6), 40 mm (from marker 6 to marker 7), 40 mm (from marker 7 to marker 8), 40 mm (from marker 8 to marker 9), 40 mm (from marker 9 to marker 10), 40 mm (from marker 10 to marker 11), and 40 mm (from marker 11 to marker 12). The keyway is located between markers 3 and 4, with a depth of 5 mm.

Кинематический коэффициент вязкости $\nu =$ см²/с

[illegible]

Таблица 9.2

№ п/п	Средняя скорость		Скоростной напор		Потери напора при внезапном расширении	Коэффициент местного сопротивления, ζ	Re
	V_1	V_2	$\alpha_1 V_1^2 / 2g$	$\alpha_2 V_2^2 / 2g$			
Единицы измерения	см/с	см/с	см	см	см		
1							
2							
3							
4							
5							
6							

ζ теор = (по формуле Вейсбаха)

Студент: _____ Работу проверил _____

Группа: _____ Работу принял _____

"__" _____ 2025 г.