

# Performance Testing of Prototype Live Loaded Packed Stem Seals For Large Gate Valves in Pressurized Hot Water.

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Fixed Condition	Variable	Fan Laws	Equation
Impeller (D)	Speed (n)	Flow rate varies directly as the speed ratio.	$Q_2 = Q_1 (n_2/n_1)$
		Pressure varies as the square of the speed ratio.	$P_2 = P_1 (n_2/n_1)^2$
	Density ( $\rho$ )	Power required varies as the cube of the speed ratio.	$P_{T2} = P_{T1} (n_2/n_1)^3$
System	Impeller Diameter (D)	Flow rate varies as the cube of the fan diameter ratio.	$Q_2 = Q_1 (D_2/D_1)^3$
		Pressure varies as the square of the fan diameter ratio.	$P_2 = P_1 (D_2/D_1)^2$
		Power required varies as the fifth power of the fan diameter ratio.	$P_{T2} = P_{T1} (D_2/D_1)^5$
Flow Rate	Density ( $\rho$ )	Power and pressure vary directly as the air density ratio.	$P_2 = P_1 (\rho_2/\rho_1)$
Speed			$P_{T2} = P_{T1} (\rho_2/\rho_1)$

Description: -

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Atomic Energy of Canada Limited. AECL -- 5312 Performance Testing of Prototype Live Loaded Packed Stem Seals For Large Gate Valves in Pressurized Hot Water.

Notes: 1

This edition was published in 1976



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Tags: #INJECTION #MOLDING: #Gate

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## Lawriter

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## Port Manteaux Word Maker

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