

LENNTECH - Pump Failure / Error Table

Discharge too low	Discharge stops after a time	Head too low	Head too high	Drive mechanism overloaded	Pump not running quietly	Temperature in pump too high	Temperature in shaft sealing too high	Temperature at the bearing too high	Pump leaking	Leakage rate at shaft sealing too high	Cause	Solution
■											Back pressure too high	check facility for pollution, open discharge valve reduce resistance in discharge pipe (e.g. clean filter if necessary) use larger impeller (note available motor power)
		■		■				■			Back pressure too low, discharge too low	throttle discharge valve
			■	■							Speed too high	reduce speed. compare speed of motor with specified pump speed (rating plate) when adjusting speed (frequency transformer) check reference value setting
■		■									Speed too low	increase speed (check available motor power) compare speed of motor with specified pump speed (rating plate) when adjusting speed (frequency transformer) check reference value settings
	■	■			■	■					Flow too little	increase min. flow (open discharge valve, bypass)
								■			Flow too big	reduce flow (throttle discharge valve)
			■	■							Impeller diameter too big	use smaller impeller
■		■									Impeller diameter too small	use larger impeller (check available motor power)
■		■			■	■					Pump and/or pipes not completely filled with liquid	fill vent
■	■	■									Pump or suction/intake pipe blocked	clean
■		■									Air pocket in pipeline	vent, improve course of pipe
■	■	■			■	■					Suction height too big / NPSH of system too small	increase liquid level and admission pressure reduce resistance in the intake/suction pipe (change course and rated width, open shut-off valves, clean filters)
■	■	■									Air being sucked in	increase liquid level, check if suction pipe is vacuum-tight
■	■	■									Air being sucked in through shaft sealing	clean sealing pipe increase sealing pressure replace shaft sealing
■		■									Direction of rotation is wrong	swap over two phases of power supply (to be done by an electrician)
■		■			■			■			Inner components suffering from wear	replace worn parts
■		■		■							Density and/or viscosity of liquid handled is too high	seek assistance
				■						■	Stuffing box not straight	tighten evenly
							■				Stuffing box is fastened too tight resp. shaft sealing is worn	loosen stuffing box replace packing and/or mechanical seal check sealing, flushing and cooling pipes (pressure) avoid dry running
							■			■	Lines and roughness at shaft	replace parts
							■			■	Unsuitable packing material	use suitable material (check shaft or shaft sleeve for damage)
							■			■	Deposits on mechanical seal	use suitable material (check shaft or shaft sleeve for damage beforehand)
					■					■	Impeller out of balance	remove blocks/deposits, replace impeller if broken or unevenly worn check shafts to ensure that they are running true
					■			■		■	Coupling not aligned	align pump unit better
					■			■			Coupling distance too small	change
				■	■			■	■	■	Forces in pipeline too high (pump unit under strain)	change (support pipes, use compensators, etc.) is foundation plate/frame properly cast in place?



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								■			Too much, too little or the wrong type of lubricant	change
				■							Electricity supply not right (2 phase running)	check voltage of all phases, check cable connections and fuses
									■		Sealing insufficient	tighten screws replace sealing
					■			■			Bearing damaged	replace
								■			Relief fittings insufficient	clean relief openings in impeller, replace worn parts (impeller, split rings), adjust in line with the system pressure/intake pressure given on ordering
				■							System related vibrations (resonance)	seek assistance

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