Title: ACTUATOR OPERATING TIMES WITH NAMUR SOLENOID VALVE

ACTUATOR MODEL	TIME (T)
03	0.12
05	0.19
07	0.32
08	0.48
09	0.66
10	0.89
12	1.3
14	3.0
15	5.4

	NOTES: METHOD:	 T = Stroke time in seconds for 90° travel (No load condition) Supply pressure = 80 psi Cv of 0.7 or greater will achieve times stated above. Solenoid Valve tested is Pneumatrol / RGS C1518. Times stated correct from 30-03-15. Prior to this times will be slower. Given required Load torque Nm (L) and max actuator torque (A). 			
Load Refe Stro		Load % max torqu Refer to graph on p Stroke Time with I	page 2 for Actuator operating time factor r_{L} load $(T_{L}) = T \times F$	(F)	
EXAMPLE:		(T from table above) Torque required is 90 Nm, 094-100 actuator used, from catalogue max torque = 199Nm Load % max torque = $L / A = 90/199 = 45\%$ max torque Using graph on sheet 2, load factor is 1.6.			
		Stroke Time with I	load $(T_L) = T \ge F = 0.66 \ge 1.6 = 1.056 \sec^{-1}$	onds	
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