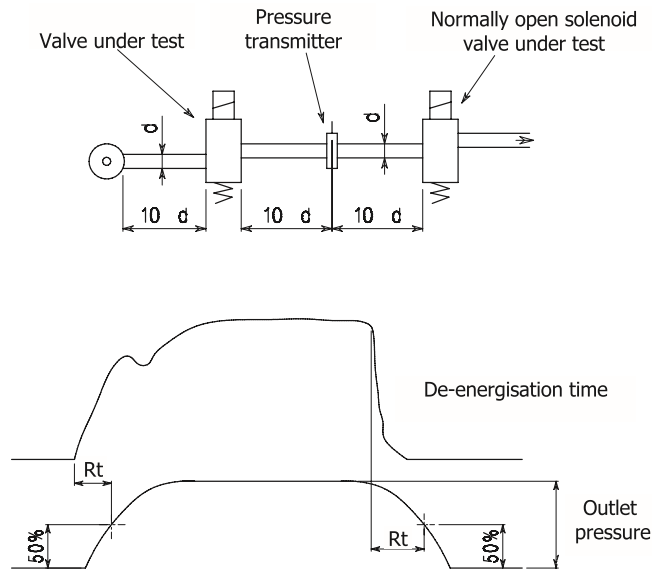


## 1.10 Response time

1

The Response time ( $R_t$ ) of a solenoid valve is the period passing between the energisation (or de-energisation) of the coil and the moment when the outlet pressure reaches the 50% of its peak.

Example of a circuit test:



The response time depends from the type of valve, the nature of the medium, the pressure and the current (AC or DC), if these value are measured at the moment of electrical connection or disconnection.

Series	Tr (ms) Air P=6bar		Notes
	Opening	Closing	
2 and 3 ways direct acting NC	8	25	with liquids +50% ÷ +150% depending on the viscosity
2 and 3 ways direct acting NO	25	8	
Servoassisted NC G3/8" - G1/2" G3/4" - G1"	30	50	
	50	70	
Servoassisted NO G3/8" - G1/2" G3/4" - G1"	50	30	
	70	50	
Servoassisted G1"1/4 - G1"1/2 - G2" G2"1/2 - G3"	Adjustable time		