



Information 7-3.1 I

02.96/12.06

M&C | Pressure drop and delay time for gases in tubes in dependence of inside diameter, tube length and flow rate.

Hose-/Tube inside \varnothing mm	Tube length m	Volume l	Flow rate NI/hr	Pressure drop mbar	Delay time* approx. sec.
4	15	0,188	200	40	3
			400	90	1,7
			600	170	1,1
			800	280	<1
			1000	>500	<1
4	30	0,376	200	70	7
			400	170	3,4
			600	275	2,3
			800	>500	1,7
4	60	0,752	200	200	13,7
			400	>500	6,8
6	15	0,424	200	6	7,7
			400	12	3,8
			600	25	2,5
			800	42	1,9
			1000	60	1,5
			1200	84	1,3
			1400	108	1
			1600	132	<1
6	30	0,848	200	13	5,4
			400	27	7,6
			600	50	5
			800	80	3,8
			1000	110	3
			1200	145	2,5
			1400	180	2,2
			1600	215	1,9
6	60	1,696	200	25	30,8
			400	53	15,2
			600	90	10
			800	132	7,6
			1000	187	6,0
			1200	300	5,1
			1400	>500	4,8

* Only change of one sample volume, to reach 90% response time approx. 3 changes of sample volume are required