

Air Flow Rates

PTFE & PE Filter Elements

Air flow rates in Nm³/hr at stated line pressure with a 0.1 Bar pressure drop

Flow rates will depend on which filter element grade is installed in the filter housing. First check the size of the filter element installed using the housing data sheets and then use the charts below to read the flow rate at the desired pressure against the element grade. Replace the □ in the part number shown with the required grade, for example 12.57.T20 would be a grade T20 on the charts below.

The maximum flow rate also depends on the flow path though the housing - for housings with a smaller port size please consult us for the exact figure.

12.32.□		Air Pressure (Bar), 1/4" Port Size										
Grade		1	2	4	7	10	16	34	100	200	400	700
T2	PE2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.8	2.8	3.5	5.0
	PE10	0.5	0.8	1.1	1.5	1.8	2.3	3.4	5.3	8.3	10.5	15.0
T20	PE20	0.7	1.1	1.6	2.3	2.7	3.4	5.1	7.9	12.4	15.8	22.5
	PE40	1.0	1.6	2.3	3.3	3.9	4.9	7.3	11.4	17.9	22.8	32.5
	PE100	1.1	1.9	2.6	3.8	4.5	5.6	8.4	13.1	20.6	26.3	37.5

12.57.□		Air Pressure (Bar), 1/4" Port Size										
Grade		1	2	4	7	10	16	34	100	200	400	700
T2	PE2	0.3	0.5	0.6	0.9	1.1	1.4	2.0	3.2	5.0	6.3	9.0
	PE10	0.8	1.4	1.9	2.7	3.2	4.1	6.1	9.5	14.9	18.9	27.0
T20	PE20	1.2	2.0	2.8	4.1	4.9	6.1	9.1	14.2	22.3	28.4	40.5
	PE40	1.8	2.9	4.1	5.9	7.0	8.8	13.2	20.5	32.2	41.0	58.5
	PE100	2.0	3.4	4.7	6.8	8.1	10.1	15.2	23.6	37.1	47.3	67.5

25.64.□		Air Pressure (Bar), 1/2" Port Size										
Grade		1	2	4	7	10	16	34	100	200	400	700
T2	PE2	0.6	1.0	1.4	2.0	2.4	3.0	4.5	7.0	11.0	15.0	20.0
	PE10	1.8	3.0	4.2	6.0	7.2	9.0	13.5	21.0	33.0	45.0	60.0
T20	PE20	2.7	4.5	6.3	9.0	10.8	13.5	20.3	31.5	49.5	67.5	90.0
	PE40	3.9	6.5	9.1	13.0	15.6	19.5	29.3	45.5	71.5	97.5	130.0
	PE100	4.5	7.5	10.5	15.0	18.0	22.5	33.8	52.5	82.5	112.5	150.0

25.178.□		Air Pressure (Bar), 3/4" Port Size										
Grade		1	2	4	7	10	16	34	100	200	400	700
T2	PE2	1.7	2.9	4.1	5.8	7.0	8.7	13.1	20.3	31.9	43.5	58.0
	PE10	5.2	8.7	12.2	17.4	20.9	26.1	39.2	60.9	95.7	130.5	174.0
T20	PE20	7.8	13.1	18.3	26.1	31.3	39.2	58.7	91.4	143.6	195.8	261.0
	PE40	11.3	18.9	26.4	37.7	45.2	56.6	84.8	132.0	207.4	282.8	377.0
	PE100	13.1	21.8	30.5	43.5	52.2	65.3	97.9	152.3	239.3	326.3	435.0

38.152.□		Air Pressure (Bar), 1" Port Size										
Grade		1	2	4	7	10	16	34	100	200	400	
T2	PE2	2.3	3.8	5.3	7.5	9.0	11.3	16.9	26.3	41.3	56.3	
	PE10	6.8	11.3	15.8	22.5	27.0	33.8	50.6	78.8	123.8	168.8	
T20	PE20	10.1	16.9	23.6	33.8	40.5	50.6	75.9	118.1	185.6	253.1	
	PE40	14.6	24.4	34.1	48.8	58.5	73.1	109.7	170.6	268.1	365.6	
	PE100	16.9	28.1	39.4	56.3	67.5	84.4	126.6	196.9	309.4	421.9	

51.230.□		Air Pressure (Bar), 2" Port Size										
Grade		1	2	4	7	10	16	34	100	200	400	
T2	PE2	4.5	7.5	10.5	15.0	18.0	22.5	33.8	52.5	82.5	112.5	
	PE10	13.5	22.5	31.5	45.0	54.0	67.5	101.3	157.5	247.5	337.5	
T20	PE20	20.3	33.8	47.3	67.5	81.0	101.3	151.9	236.3	371.3	506.3	
	PE40	29.3	48.8	68.3	97.5	117.0	146.3	219.4	341.3	536.3	731.3	
	PE100	33.8	56.3	78.8	112.5	135.0	168.8	253.1	393.8	618.8	843.8	

51.476.□		Air Pressure (Bar), 2" Port Size										
Grade		1	2	4	7	10	16	34	100	200	400	
T2	PE2	9.3	15.5	21.7	31.0	37.2	46.5	69.8	108.5	170.5	232.5	
	PE10	27.9	46.5	65.1	93.0	111.6	139.5	209.3	325.5	511.5	697.5	
T20	PE20	27.9	69.8	97.7	139.5	167.4	209.3	313.9	488.3	767.3	1046.3	
	PE40	60.5	100.8	141.1	201.5	241.8	302.3	453.4	705.3	1108.3	1511.3	
	PE100	69.8	116.3	162.8	232.5	279.0	348.8	523.1	813.8	1278.8	1743.8	

Notes (1) The above flow rates are for air at 20°C. Flow rates for other gases can be derived from relative viscosity data.

(2) Flow rates are generally proportional to pressure drop. If an initial drop of 0.2 bar can be tolerated flow rates can be doubled.