

Air Flow Rates

Disposable Type Filter Elements

Air flow rates in SCFM at stated line pressure with a 1.5 psi 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 12.57.7K would be a grade 7 on the charts below.

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

12.32.□											
Air Pressure (psi), 1/4" Port Size											
Grade	15	30	60	100	150	230	500	1500	3000	5000	10000
4	0.9	1.5	2.2	3.1	3.7	4.6	6.9	10.8	17.0	21.6	30.9
5	1.9	3.1	4.3	6.2	7.4	9.3	13.9	21.6	34.0	43.2	61.8
6	3.2	5.4	7.6	10.8	13.0	16.2	24.3	37.8	59.5	75.7	108.1
7	3.7	6.2	8.6	12.4	14.8	18.5	27.8	43.2	67.9	86.5	123.5
8	4.2	6.9	9.7	13.9	16.7	20.8	31.3	48.6	76.4	97.3	139.0

12.57.□											
Air Pressure (psi), 1/4" Port Size											
Grade	15	30	60	100	150	230	500	1500	3000	5000	10000
4	1.5	2.5	3.5	5.0	6.0	7.5	11.3	17.5	27.5	35.0	50.0
5	3.0	5.0	7.0	10.0	12.0	15.0	22.5	35.0	55.0	70.0	100.0
6	5.3	8.8	12.3	17.5	21.0	26.3	39.4	61.3	96.3	122.6	175.1
7	6.0	10.0	14.0	20.0	24.0	30.0	45.0	70.0	110.1	140.1	200.1
8	6.8	11.3	15.8	22.5	27.0	33.8	50.7	78.8	123.8	157.6	225.1

25.64.□											
Air Pressure (psi), 1/2" Port Size											
Grade	15	30	60	100	150	230	500	1500	3000	5000	10000
4	3.3	5.4	7.6	10.9	13.1	16.3	24.5	38.1	59.9	81.7	108.9
5	6.5	10.9	15.2	21.8	26.1	32.7	49.0	76.2	119.8	163.3	217.8
6	11.4	19.1	26.7	38.1	45.7	57.2	85.7	133.4	209.6	285.8	381.1
7	13.1	21.8	30.5	43.6	52.3	65.3	98.0	152.4	239.6	326.7	435.6
8	14.7	24.5	34.3	49.0	58.8	73.5	110.2	171.5	269.5	367.5	490.0

25.178.□											
Air Pressure (psi), 3/4" Port Size											
Grade	15	30	60	100	150	230	500	1500	3000	5000	10000
4	9.3	15.5	21.6	30.9	37.1	46.4	69.5	108.2	170.0	231.8	309.0
5	18.5	30.9	43.3	61.8	74.2	92.7	139.1	216.3	339.9	463.5	618.0
6	32.4	54.1	75.7	108.2	129.8	162.2	243.3	378.5	594.8	811.1	1081.5
7	37.1	61.8	86.5	123.6	148.3	185.4	278.1	432.6	679.8	927.0	1236.0
8	41.7	69.5	97.3	139.1	166.9	208.6	312.9	486.7	764.8	1042.9	1390.5

38.152.□											
Air Pressure (psi), 1" Port Size											
Grade	15	30	60	100	150	230	500	1500	3000	6000	
4	11.9	19.9	27.8	39.7	47.7	59.6	89.4	139.1	218.5	298.0	
5	23.8	39.7	55.6	79.5	95.4	119.2	178.8	278.1	437.0	595.9	
6	41.7	69.5	97.3	139.1	166.9	208.6	312.9	486.7	764.8	1042.9	
7	47.7	79.5	111.2	158.9	190.7	238.4	357.6	556.2	874.0	1191.9	
8	53.6	89.4	125.1	178.8	214.5	268.2	402.3	625.7	983.3	1340.9	

51.230.□											
Air Pressure (psi), 2" Port Size											
Grade	15	30	60	100	150	230	500	1500	3000	6000	
4	24.6	41.1	57.5	82.1	98.5	123.2	184.7	287.4	451.6	615.8	
5	49.3	82.1	114.9	164.2	197.1	246.3	369.5	574.7	903.2	1231.6	
6	86.2	143.7	201.2	287.4	344.8	431.1	646.6	1005.8	1580.6	2155.3	
7	98.5	164.2	229.9	328.4	394.1	492.6	739.0	1149.5	1806.4	2463.2	
8	110.8	184.7	258.6	369.5	445.2	554.2	831.3	1293.2	2032.2	2771.1	

51.476.□											
Air Pressure (psi), 2" Port Size											
Grade	15	30	60	100	150	230	500	1500	3000	6000	
4	51.1	85.2	119.3	170.4	204.5	255.6	383.4	596.4	937.2	1278.0	
5	102.2	170.4	238.6	340.8	408.9	511.2	766.8	1192.8	1874.3	2555.9	
6	178.9	298.2	417.5	596.4	715.7	894.6	1341.9	2087.3	3280.1	4472.9	
7	204.5	340.8	477.1	681.6	817.9	1022.4	1533.5	2385.5	3748.7	5111.8	
8	230.0	383.4	536.7	766.8	920.1	1150.2	1725.2	2683.7	4217.3	5750.8	

Notes (1) The above flow rates are for air at 70°F. 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 3 psi can be tolerated flow rates can be doubled.