

SERIES CARD SIZING CHART FOR PIPELINE FILLING

These charts show the maximum fill rate for various pipe sizes, with a fill rate not exceeding a velocity of 1 ft/sec.

CARD100

The CARD100 will flow up to 5 SCFM air.

SCHD 80 PIPE SIZE	MAX. FILL RATE GPM	SCFM AIR FLOW RATE
1"	2.1	0.3
1.5"	5.3	0.7
2"	9.0	1.2
2.5"	12.8	1.7
3"	20.1	2.7
4"	35.1	4.7

CARD200

The CARD200 will flow up to 19 SCFM air.

SCHD 80 PIPE SIZE	FILL RATE GPM	SCFM AIR FLOW RATE
2"	9.0	1.2
2.5"	12.8	1.7
3"	20.1	2.7
4"	35.1	4.7
5"	55.6	7.4
6"	79.8	10.7
8"	140.1	18.7

CARD400

The CARD400 will flow up to 100 SCFM air

SCHD 80 PIPE SIZE	FILL RATE GPM	SCFM AIR FLOW RATE
4"	35.1	4.7
5"	55.6	7.4
6"	79.8	10.7
8"	140.1	18.7
10"	220.5	29.5
12"	312.2	41.7
14"	376.9	50.4
16"	494.5	66.1
18"	627.6	83.9

AIR CAPACITY TABLE FOR AIR RELEASE FUNCTION OF SERIES CARD

INLET PRESSURE PSIG	CARD100	CARD200	CARD400
10	2.0	3.6	14.5
15	2.6	4.6	18.5
20	3.0	5.4	21.7
25	3.4	6.2	24.8
30	3.9	7.0	27.9
35	4.3	7.8	31.0
40	4.7	8.5	34.1
45	5.2	9.3	37.3
50	5.6	10.1	40.4
55	6.0	10.9	43.5
60	6.5	11.7	46.6
65	6.9	12.4	49.8
70	7.3	13.2	52.9
75	7.7	14.0	56.0
80	8.2	14.8	59.1
85	8.6	15.6	62.2
90	9.0	16.3	65.4
95	9.5	17.1	68.5
100	9.9	17.9	71.6
110	10.8	19.5	77.8
120	11.6	21.0	84.1
130	12.5	22.6	90.3
140	13.4	24.1	96.6
150	14.2	25.7	102.8

Instructions: The table above shows the air flow rate in SCFM through the card valve. This is air released while the pipeline is operating under normal flowing conditions, pressurized.

Select your inlet pressure for the valve. Go to the column for your valve (e.g. Card200). The flow in SCFM is given at the appropriate pressure for your valve. For example; with a CARD200 valve operating at 50 PSIG, the valve can vent up to 10.1 SCFM.