

Return air disc valve

1.2 Air Flow Data

| Neck size in mm dia | Position of disc | Air flow rate | | | | | | | | |
|---------------------|------------------|---------------|-------|-------|--------|--------|-------|--------|--------|--------|
| | | L/s | 5 | 10 | 20 | 30 | 40 | 50 | 70 | 90 |
| 80 | A = +10 | Ps (Pa) | < 4 | 8.92 | 42.17 | 100.03 | | | | |
| | | NC | < 20 | < 20 | 24 | 37 | | | | |
| | A = 0 | Ps (Pa) | < 4 | 14.02 | 69.63 | 169.66 | | | | |
| | | NC | < 20 | < 20 | 31 | 44 | | | | |
| | A = -10 | Ps (Pa) | 17.95 | 50.01 | 176.52 | > 200 | | | | |
| | | NC | < 20 | 22 | 45 | > 45 | | | | |
| 100 | A = +10 | Ps (Pa) | < 4 | < 4 | 15.98 | 37.27 | 56.88 | 95.12 | | |
| | | NC | < 20 | < 20 | < 20 | 22 | 30 | 35 | | |
| | A = 0 | Ps (Pa) | < 4 | 7.45 | 24.52 | 54.92 | 95.12 | 144.16 | | |
| | | NC | < 20 | < 20 | < 20 | 29 | 35 | 43 | | |
| | A = -10 | Ps (Pa) | 5.98 | 21.97 | 74.53 | 149.06 | > 200 | > 200 | | |
| | | NC | < 20 | < 20 | 34 | 39 | > 45 | > 45 | | |
| 125 | A = +10 | Ps (Pa) | < 4 | < 4 | 6.96 | 13.93 | 28.44 | 40.21 | 95.12 | |
| | | NC | < 20 | < 20 | < 20 | < 20 | 20 | 25 | 35 | |
| | A = 0 | Ps (Pa) | < 4 | < 4 | 17.95 | 40.21 | 79.92 | 109.83 | > 200 | |
| | | NC | < 20 | < 20 | < 20 | < 20 | 30 | 35 | > 45 | |
| | A = -10 | Ps (Pa) | < 4 | 20.59 | 69.63 | 164.75 | > 200 | > 200 | > 200 | |
| | | NC | < 20 | < 20 | 23 | 33 | > 45 | > 45 | > 45 | |
| 160 | A = +10 | Ps (Pa) | < 4 | < 4 | < 4 | 7.94 | 14.02 | 20.59 | 50.99 | 95.12 |
| | | NC | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | 28 | 36 |
| | A = 0 | Ps (Pa) | < 4 | < 4 | 7.94 | 17.06 | 33.34 | 51.98 | 119.64 | > 200 |
| | | NC | < 20 | < 20 | < 20 | < 20 | < 20 | 25 | 36 | 44 |
| | A = -10 | Ps (Pa) | < 4 | 4.90 | 17.06 | 37.27 | 74.53 | 144.16 | > 200 | > 200 |
| | | NC | < 20 | < 20 | < 20 | < 20 | 27 | 33 | > 45 | > 45 |
| 200 | A = +10 | Ps (Pa) | < 4 | < 4 | < 4 | < 4 | 7.45 | 10.98 | 25.50 | 42.95 |
| | | NC | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | 27 | 34 |
| | A = 0 | Ps (Pa) | < 4 | < 4 | 6.86 | 13.73 | 22.56 | 33.34 | 82.38 | 119.64 |
| | | NC | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | 35 | 41 |
| | A = -10 | Ps (Pa) | < 4 | 4.90 | 15.89 | 33.34 | 69.63 | 109.83 | > 200 | > 200 |
| | | NC | < 20 | < 20 | < 20 | < 20 | < 20 | 32 | > 45 | > 45 |

• P_s : Static pressure drop in Pascal.

• Noise Criteria (NC) based on room attenuation of 10 dB.

• A = + 10, 0 & - 10 = Position of the disc 10 mm down of normal position, at normal position, and 10 mm above position.