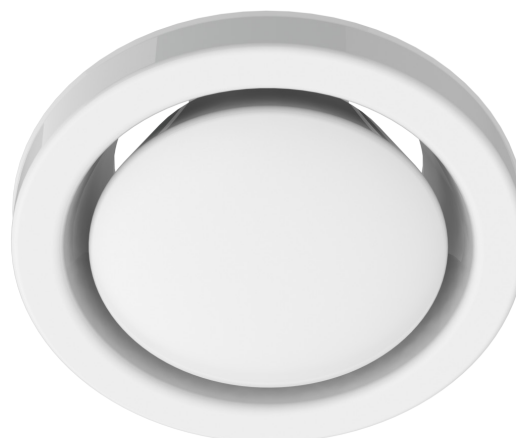


## DSE Exhaust valve

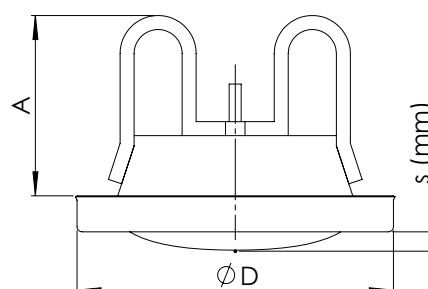
Exhaust valve for wall and ceiling installation.  
Available in sizes Ø 100-200 mm.



### Structure and dimensions

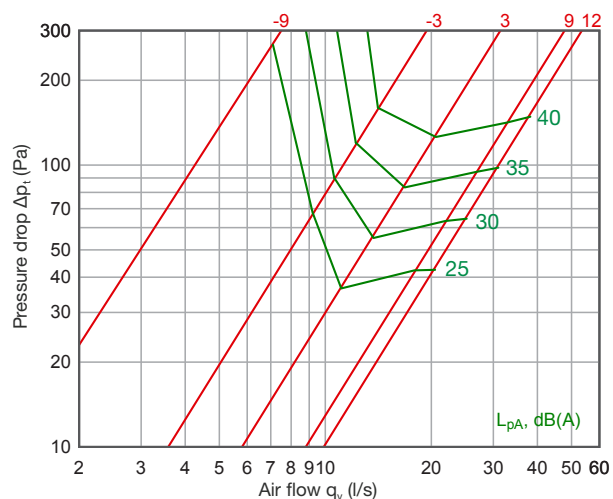
Manufactured of galvanized steel and coated white (RAL 9010). The valve has a foam seal and a threaded spindle for easy regulation and locking of the desired air flow. Comes with a sector plate for choosing the desired diffusion pattern.

| Size | ØD  | A   | Weight, kg |
|------|-----|-----|------------|
| 100  | 130 | 68  | 0,3        |
| 125  | 158 | 84  | 0,4        |
| 160  | 188 | 87  | 0,5        |
| 200  | 237 | 105 | 0,6        |

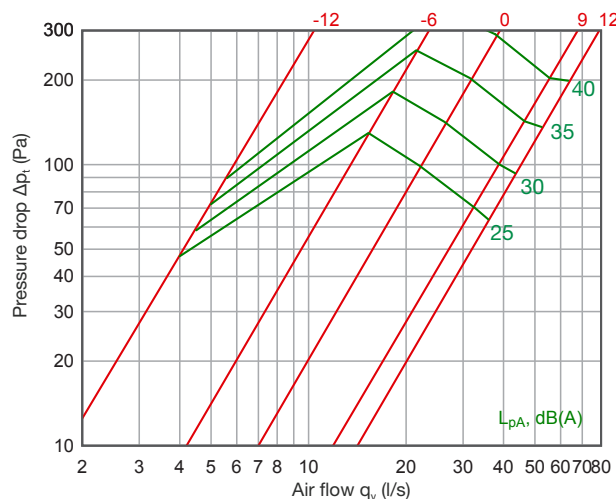


### Technical data

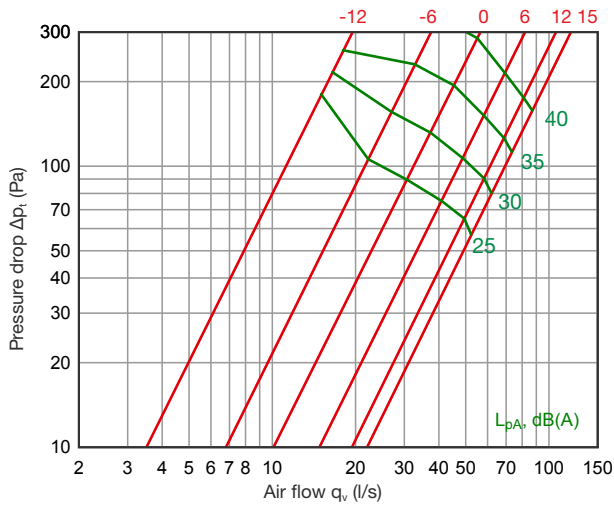
**DSE 100**



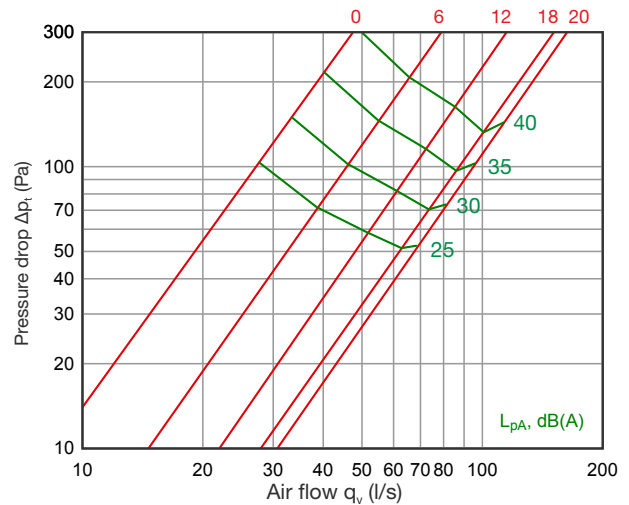
**DSE 125**



**DSE 160**



**DSE 200**



## Acoustic data

**DSE 100**

| Correction of sound level in dB<br>at octave bands, middle frequency, (Hz) |    |     |     |     |      |      |      |      |
|----------------------------------------------------------------------------|----|-----|-----|-----|------|------|------|------|
| Adjust-<br>ment                                                            | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| s=-9                                                                       | -2 | -7  | -9  | -11 | -10  | -3   | -13  | -18  |
| s=-3                                                                       | -2 | -6  | -6  | -9  | -10  | -3   | -10  | -21  |
| s=+3                                                                       | -2 | -7  | -2  | 0   | -5   | -13  | -20  | -22  |
| s=+9                                                                       | -1 | -4  | 0   | 0   | -7   | -11  | -18  | -20  |
| s=+12                                                                      | -3 | -4  | 1   | -1  | -8   | -9   | -17  | -20  |

**DSE 125**

| Correction of sound level in dB<br>at octave bands, middle frequency, (Hz) |    |     |     |     |      |      |      |      |
|----------------------------------------------------------------------------|----|-----|-----|-----|------|------|------|------|
| Adjust-<br>ment                                                            | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| s=-6                                                                       | 1  | 0   | -3  | -6  | -9   | -4   | -15  | -17  |
| s=0                                                                        | 0  | 0   | -4  | -6  | -9   | -4   | -15  | -17  |
| s=+9                                                                       | 0  | 1   | -1  | -3  | -9   | -5   | -14  | -18  |
| s=+12                                                                      | 1  | 2   | -1  | -3  | -10  | -5   | -15  | -18  |

**DSE 160**

| Correction of sound level in dB<br>at octave bands, middle frequency, (Hz) |    |     |     |     |      |      |      |      |
|----------------------------------------------------------------------------|----|-----|-----|-----|------|------|------|------|
| Adjust-<br>ment                                                            | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| s=-12                                                                      | 2  | -6  | -7  | -9  | -6   | -4   | -12  | -21  |
| s=-6                                                                       | 5  | -2  | -5  | -8  | -3   | -8   | -15  | -17  |
| s=0                                                                        | 6  | -1  | -5  | -7  | -3   | -8   | -14  | -17  |
| s=+6                                                                       | 3  | -3  | -4  | -5  | -3   | -8   | -14  | -17  |
| s=+12                                                                      | 3  | -1  | -1  | -3  | -4   | -9   | -15  | -18  |
| s=+15                                                                      | 2  | 0   | 1   | -3  | -5   | -9   | -16  | -19  |

**DSE 200**

| Correction of sound level $K_{\text{okt}}$ in dB<br>at octave bands, middle frequency, (Hz) |    |     |     |     |      |      |      |      |
|---------------------------------------------------------------------------------------------|----|-----|-----|-----|------|------|------|------|
| Adjust-<br>ment                                                                             | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| s=0                                                                                         | 3  | 0   | -4  | -5  | -3   | -10  | -15  | -18  |
| s=+6                                                                                        | 1  | -3  | -7  | -8  | -2   | -9   | -13  | -19  |
| s=+12                                                                                       | 3  | -3  | -6  | -8  | -2   | -9   | -13  | -19  |
| s=+18                                                                                       | 3  | -4  | -5  | -7  | -2   | -10  | -15  | -20  |
| s=+20                                                                                       | 2  | -4  | -5  | -7  | -2   | -9   | -14  | -19  |

## Sound attenuation, $\Delta L$ (dB)

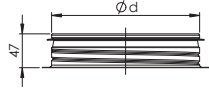
| Sound attenuation in dB at octave bands, middle frequency, (Hz) |            |    |     |     |     |      |      |      |      |
|-----------------------------------------------------------------|------------|----|-----|-----|-----|------|------|------|------|
| Product                                                         | Adjustment | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| DSE 100                                                         | s=-9       | 27 | 21  | 19  | 18  | 20   | 17   | 10   | 9    |
|                                                                 | s=+3       | 24 | 16  | 13  | 12  | 12   | 15   | 5    | 7    |
|                                                                 | s=+12      | 24 | 16  | 12  | 10  | 8    | 14   | 4    | 6    |
| DSE 125                                                         | s=-6       | 18 | 18  | 14  | 13  | 15   | 14   | 10   | 9    |
|                                                                 | s=0        | 18 | 17  | 12  | 11  | 12   | 13   | 8    | 8    |
|                                                                 | s=+12      | 20 | 16  | 10  | 8   | 9    | 9    | 5    | 6    |
| DSE 160                                                         | s=-12      | 19 | 19  | 14  | 14  | 15   | 13   | 10   | 11   |
|                                                                 | s=+6       | 18 | 14  | 10  | 9   | 9    | 10   | 6    | 6    |
|                                                                 | s=+15      | 18 | 13  | 9   | 7   | 8    | 9    | 5    | 6    |
|                                                                 | s=0        | 16 | 17  | 12  | 12  | 13   | 10   | 8    | 9    |
| DSE 200                                                         | s=+12      | 15 | 14  | 9   | 9   | 10   | 8    | 6    | 7    |
|                                                                 | s=+20      | 15 | 12  | 8   | 8   | 9    | 8    | 5    | 7    |

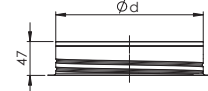
## Product codes



Example: DSE 200

## Accessories

|               |                                                                                   |     |     |                                                                                   |
|---------------|-----------------------------------------------------------------------------------|-----|-----|-----------------------------------------------------------------------------------|
| RLT<br>Socket |  |     |     |  |
|               | Product                                                                           | Ød  | ØD  | Weight                                                                            |
|               | RLT 100                                                                           | 98  | 125 | 0,12                                                                              |
|               | RLT 125                                                                           | 124 | 150 | 0,15                                                                              |
|               | RLT 160                                                                           | 159 | 185 | 0,18                                                                              |

|               |                                                                                    |     |     |                                                                                     |
|---------------|------------------------------------------------------------------------------------|-----|-----|-------------------------------------------------------------------------------------|
| RLL<br>Socket |  |     |     |  |
|               | Product                                                                            | Ød  | ØD  | Weight                                                                              |
|               | RLL 100                                                                            | 99  | 125 | 0,11                                                                                |
|               | RLL 125                                                                            | 124 | 150 | 0,14                                                                                |
|               | RLL 160                                                                            | 159 | 185 | 0,16                                                                                |

## Installation

Saddle RLT or RLL is attached to duct or part with rivets. The valve is threaded into the frame until fixing springs lie stably on the threads.

## Measurement and regulation of air flow

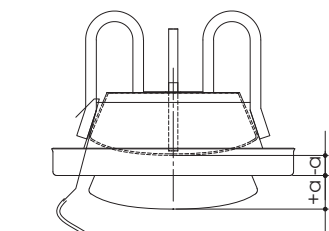
Measurement of air flow through pressure differential measured with a separate measuring device. Regulation by adjusting control a.

| DSE 100 |      |      |      |      |      |      |      |      |
|---------|------|------|------|------|------|------|------|------|
| a, mm   | -9   | -6   | -3   | 0    | 3    | 6    | 9    | 12   |
| k-value | 0,86 | 1,15 | 1,44 | 1,73 | 2,01 | 2,29 | 2,57 | 2,86 |

| DSE 125 |     |      |     |      |   |     |     |     |     |
|---------|-----|------|-----|------|---|-----|-----|-----|-----|
| a, mm   | -12 | -9   | -6  | -3   | 0 | 3   | 6   | 9   | 12  |
| k-value | 0,6 | 0,95 | 1,3 | 1,65 | 2 | 2,4 | 2,8 | 3,2 | 3,6 |

| DSE 160 |     |      |    |      |     |     |     |      |     |     |
|---------|-----|------|----|------|-----|-----|-----|------|-----|-----|
| a, mm   | -12 | -9   | -6 | -3   | 0   | 3   | 6   | 9    | 12  | 15  |
| k-value | 1,1 | 1,55 | 2  | 2,45 | 2,9 | 3,5 | 4,1 | 4,65 | 5,2 | 5,7 |

| DSE 200 |      |      |      |      |      |      |      |      |      |      |
|---------|------|------|------|------|------|------|------|------|------|------|
| a, mm   | -6   | -3   | 0    | 3    | 6    | 9    | 12   | 15   | 18   | 20   |
| k-value | 0,48 | 1,07 | 1,66 | 2,41 | 3,16 | 3,94 | 4,72 | 5,48 | 6,24 | 6,79 |



$$q_v = k \sqrt{\Delta p_m}$$

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NORDdiffuser | DSE

## Maintenance

Remove the inner cone by turning counter-clockwise. Clean surfaces with damp cloth. Replace inner cone in its original position.