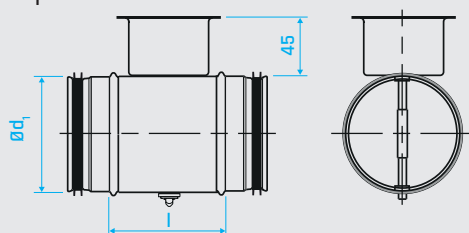




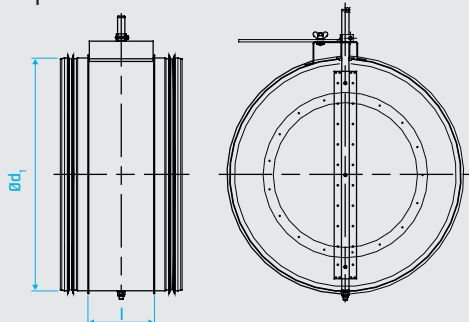
## Beschreibung

Die HTH Drosselklappe UDS ist einstellbar von 0-90°. Die Klappen werden an Stellen eingebaut, wo keine Anforderungen an die Dichtheit der Absperrung gestellt werden. Die Drosselklappen werden zum Einstellen des Volumenstroms verwendet. Die Klappe ermöglicht eine Isolation bis 50 mm Dicke.

$\varnothing d_1 = 80 \text{ mm} - 630 \text{ mm}$



$\varnothing d_1 = 800 \text{ mm} - 1.000 \text{ mm}$



Sperrklappe



## Variantencode

UDS/160



| $\varnothing d_1$ [nom] | l [mm] | m [kg] | Dichtheitskategorie hinter geschlossener Klappe |
|-------------------------|--------|--------|---|
| 63                      | 100    | 0,30   | 0   |
| 80                      | 100    | 0,35   | 0   |
| 100                     | 100    | 0,40   | 0   |
| 112                     | 100    | 0,44   | 0   |
| 125                     | 100    | 0,49   | 0   |
| 140                     | 100    | 0,54   | 0   |
| 150                     | 100    | 0,57   | 0   |
| 160                     | 100    | 0,67   | 0   |
| 180                     | 100    | 0,73   | 0   |
| 200                     | 100    | 0,86   | 0   |
| 224                     | 100    | 1,10   | 0   |
| 250                     | 100    | 1,31   | 0   |
| 280                     | 100    | 1,51   | 0   |
| 300                     | 100    | 1,65   | 0   |
| 315                     | 100    | 1,81   | 0   |
| 355                     | 100    | 2,00   | 0   |
| 400                     | 100    | 2,91   | 1   |
| 450                     | 100    | 3,90   | 1   |
| 500                     | 115    | 4,92   | 1   |
| 560                     | 115    | 6,01   | 1   |
| 600                     | 115    | 6,40   | 1   |
| 630                     | 115    | 6,92   | 1   |
| 800                     | 230    | 19,0   | 1   |
| 1.000                   | 230    | 30,0   | 1   |



|   | Ø 80-315 | Ø 400 | Ø 500 | Ø 630 | Ø 710 - 1.000 |
|---|----------|-------|-------|-------|---------------|
| das Klappenblatt wird mit einem Drehgriff eingestellt         | x        | x     | x     | x     |               |
| die Klappeneinstellung erfolgt über eine Skala an der Tasse   | x        | x     | x     | x     |               |
| die Feststellung erfolgt über zwei Schrauben                  | x        | x     | x     | x     |               |
| verstärktes Klappenblatt, Feststellung über Flügelschrauben   |          |       |       |       | x             |
| verstärktes Klappenblatt                                      |          | x     | x     | x     |               |
| Klappe ist zusätzlich verstärkt                               |          |       |       |       | x             |
| mit zusätzlichem Handgriff (DRHTG)                            |          | x     | x     | x     |               |
| mit zusätzlich verstärktem Handgriff                          |          |       |       |       | x             |
| mit verstärkter Stoppsicke                                    |          |       | x     | x     |               |
| verstärkte Achse  |          |       |       |       | x             |
| die Klappe kann für Motormontage vorbereitet geliefert werden | x        | x     | x     | x     |               |
| die Klappe kann mit Motor geliefert werden.                   | x        | x     | x     | x     | x             |

## Technische Daten

### Druckverlustdiagramm und Schalldaten

Die Geraden geben den Druckverlust  $\Delta P_t$  über die Klappe als Funktion vom Volumenstrom  $q$  und Einstellwinkel  $\alpha$  wieder. Die Kurven geben den A-gewichteten Schallleistungspegel  $L_w(A)$  in dB zum Kanal an.

### Beispiel

gegeben:

Dimension Ø100

Volumenstrom 60 l/s

Druckabfall 200 Pa

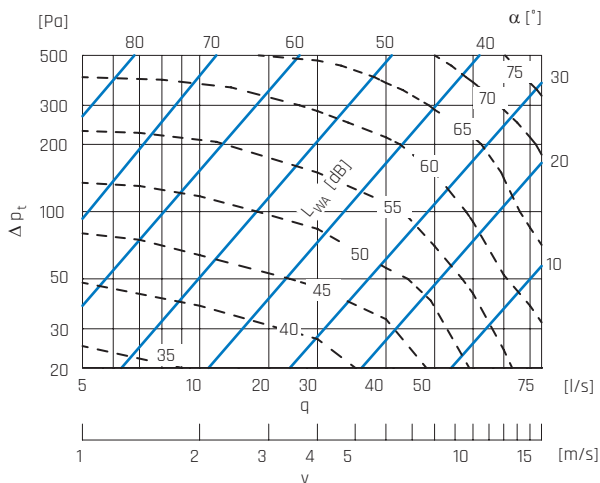
aus dem Diagramm ergibt sich

Einstellwinkel 38°

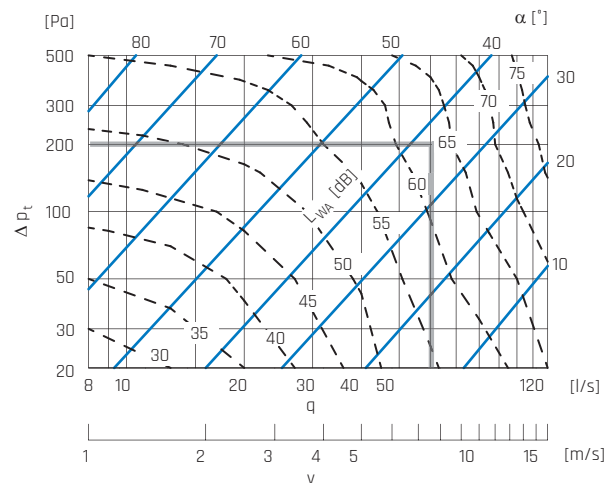
Schallleistungspegel 63 dB (A)

## Druckverlustdiagramm und Schalldaten

### Ø 80



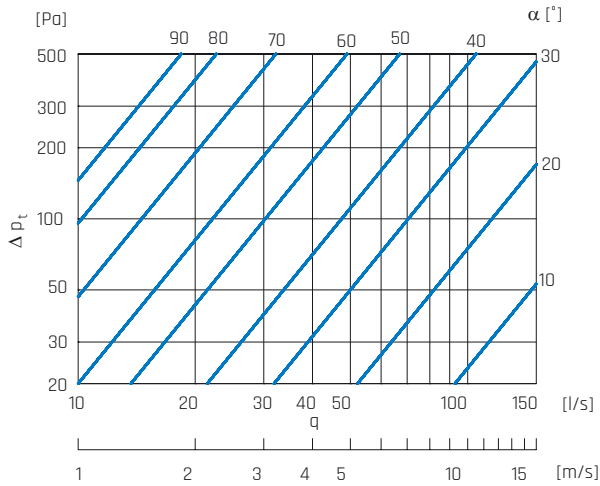
### Ø 100



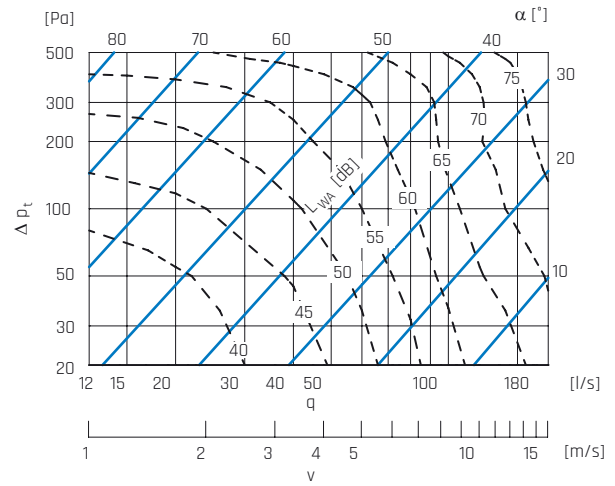


## Druckverlustdiagramm und Schalldaten

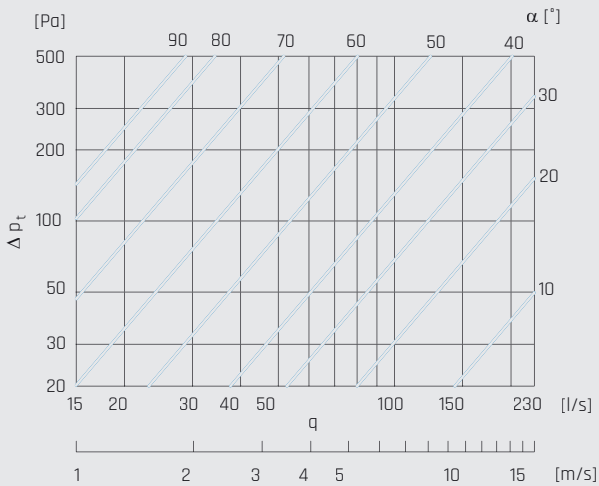
### Ø 112



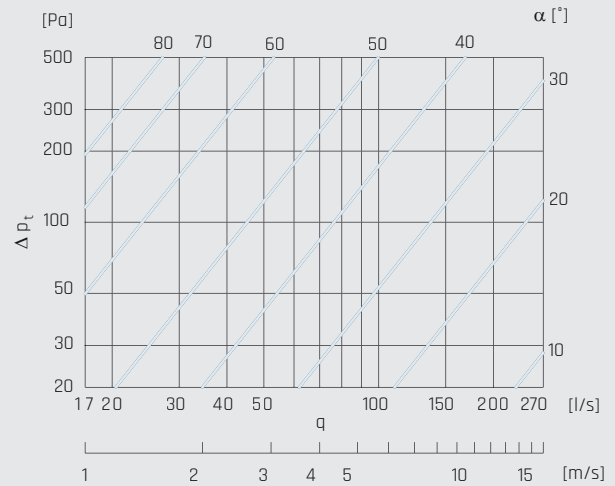
### Ø 125



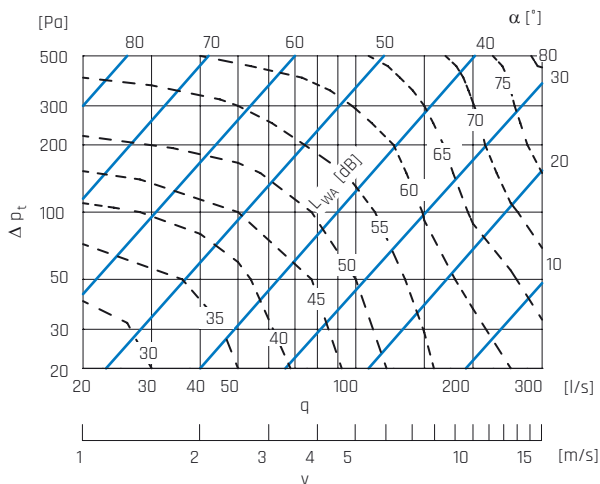
### Ø 140



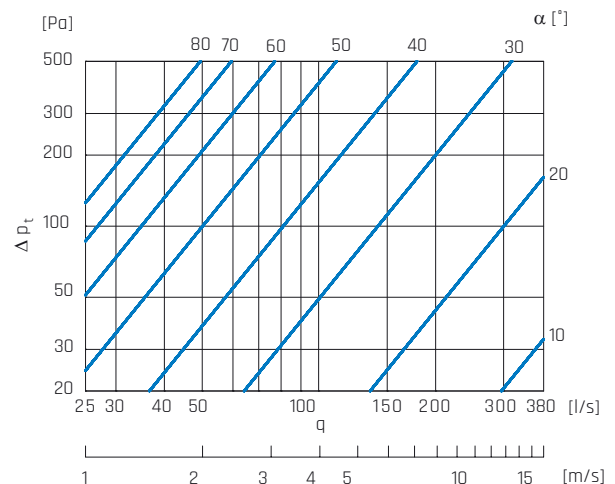
### Ø 150



### Ø 160



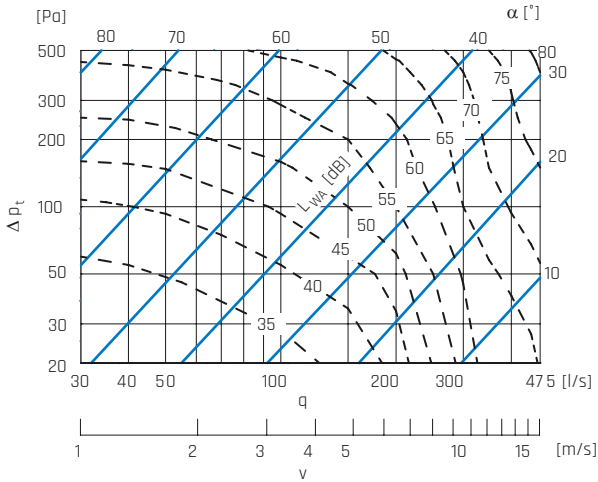
### Ø 180



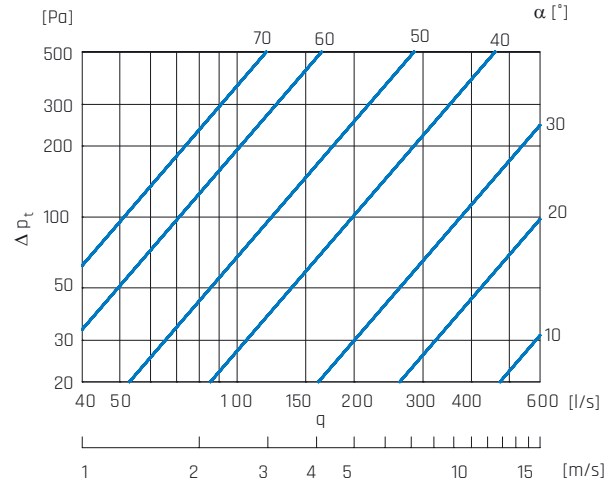


## Druckverlustdiagramm und Schalldaten

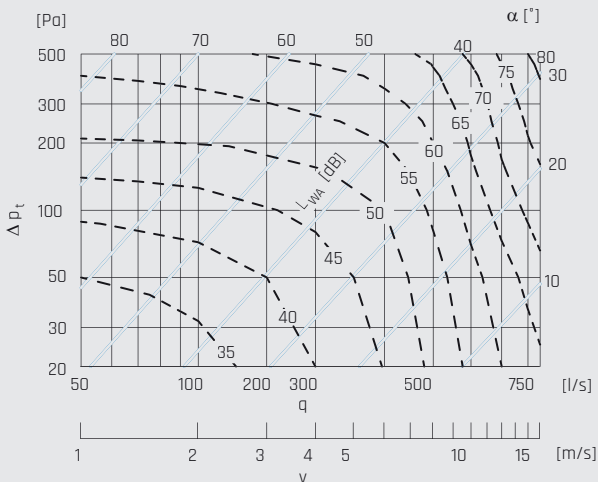
### Ø 200



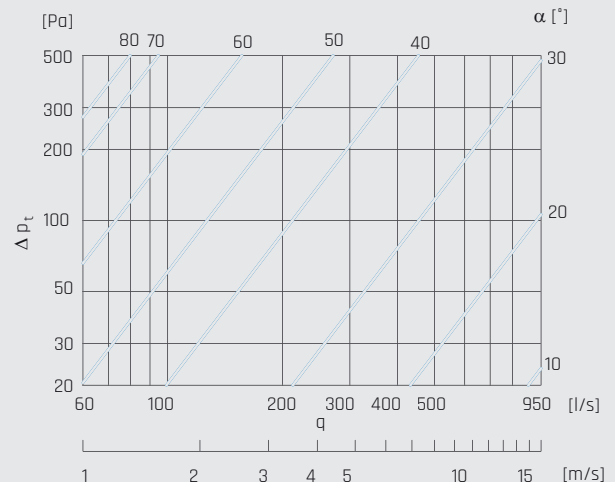
### Ø 224



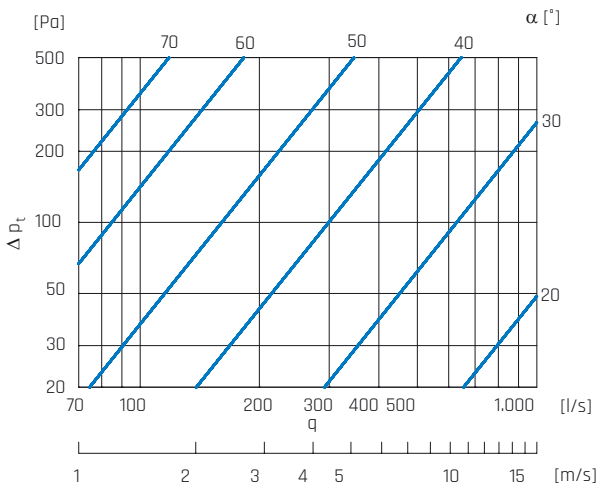
### Ø 250



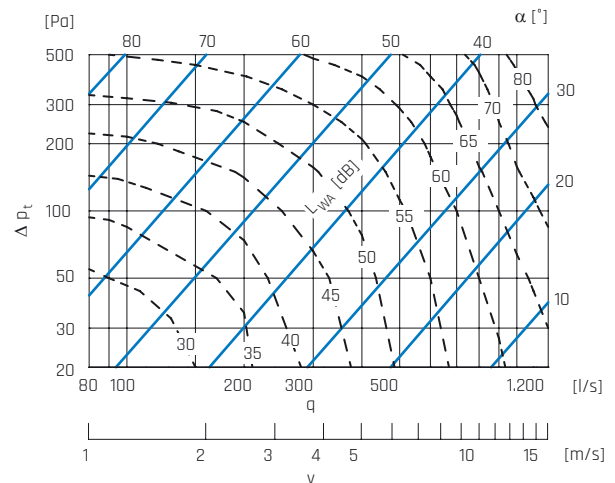
### Ø 280



### Ø 300



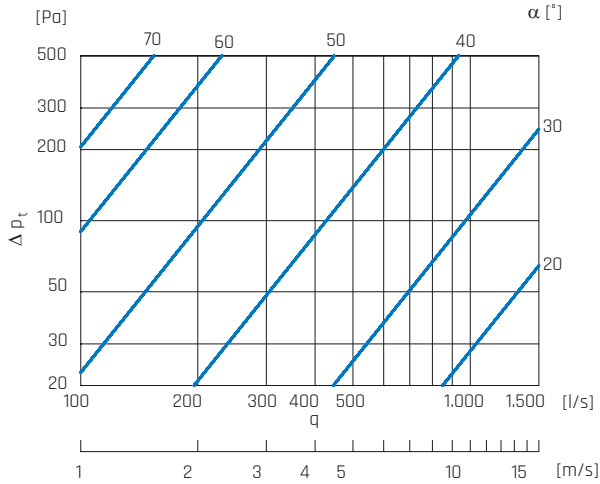
### Ø 315



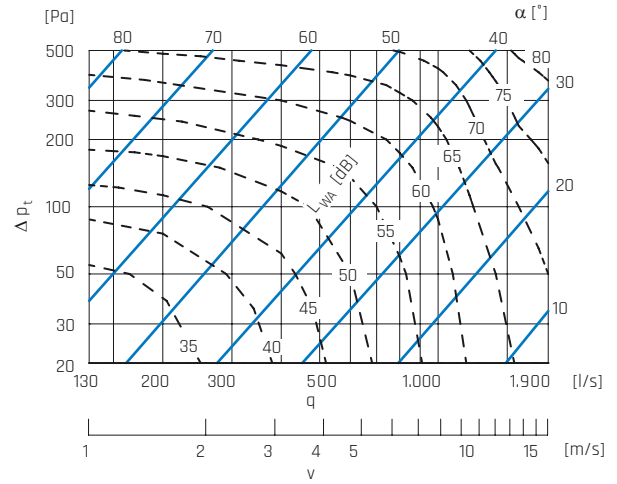


## Druckverlustdiagramm und Schalldaten

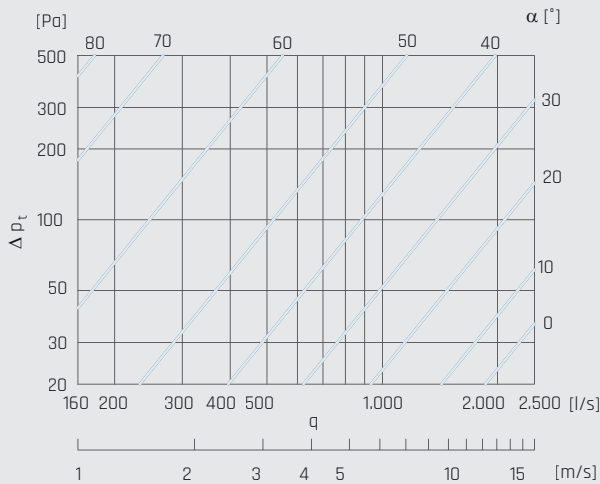
### Ø 355



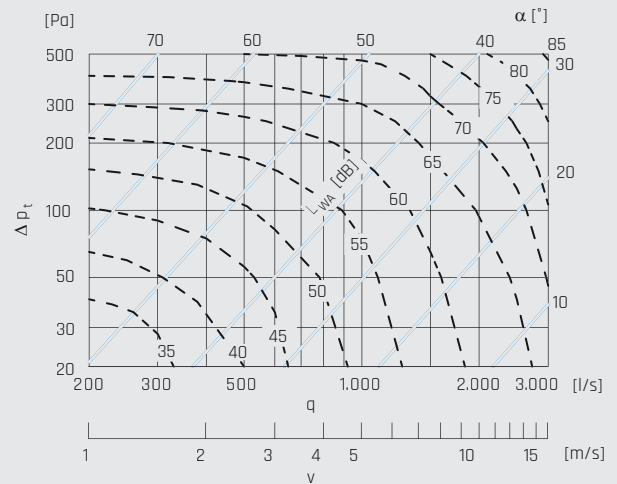
### Ø 400



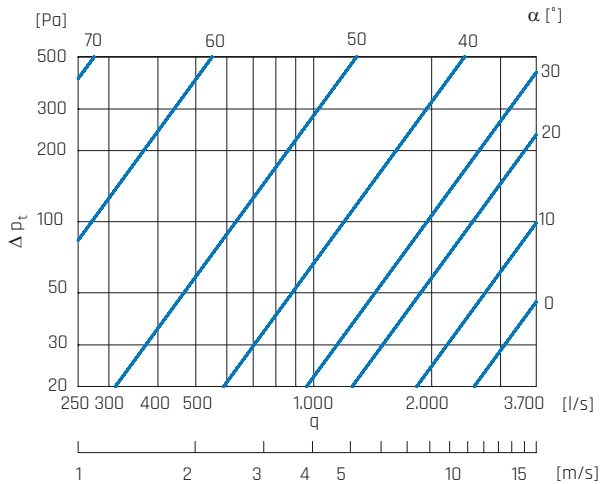
### Ø 450



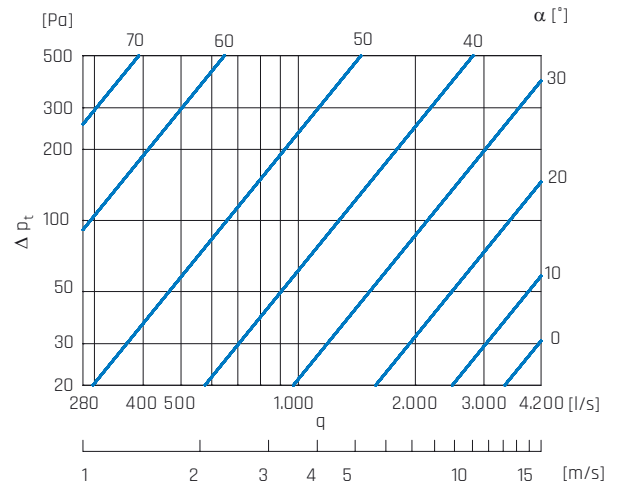
### Ø 500



### Ø 560



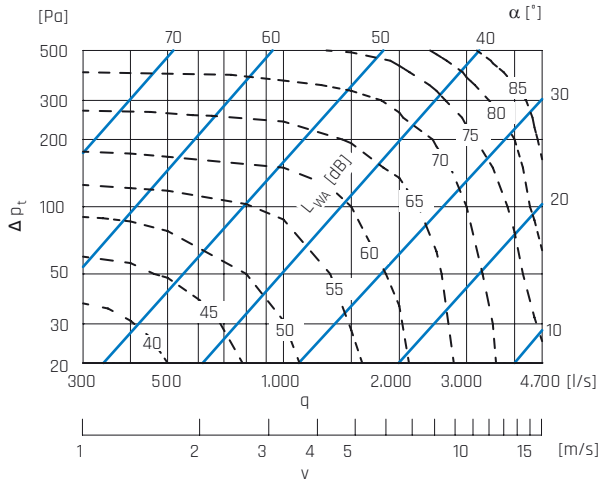
### Ø 600



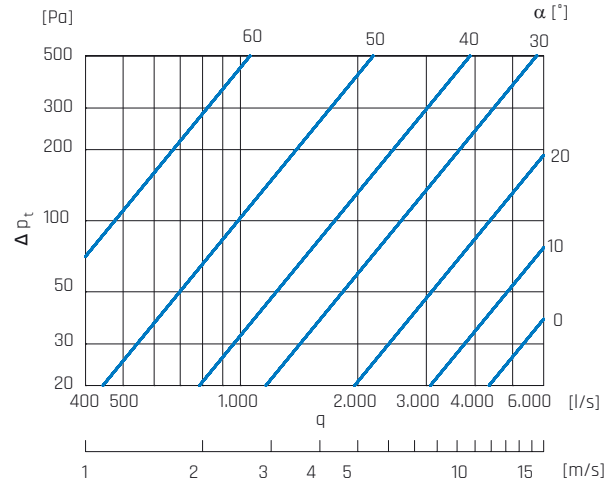


## Druckverlustdiagramm und Schalldaten

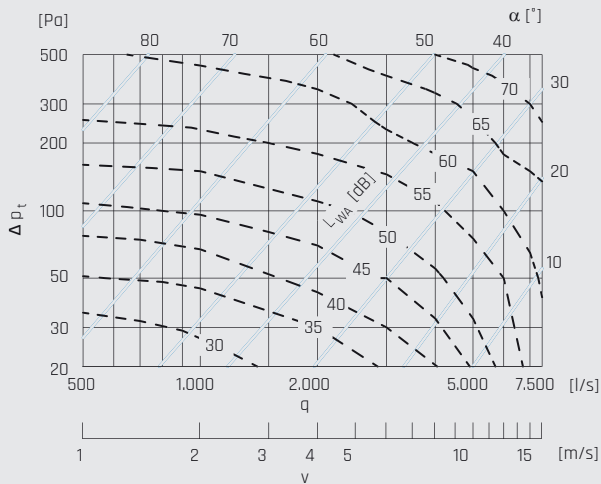
### Ø 630



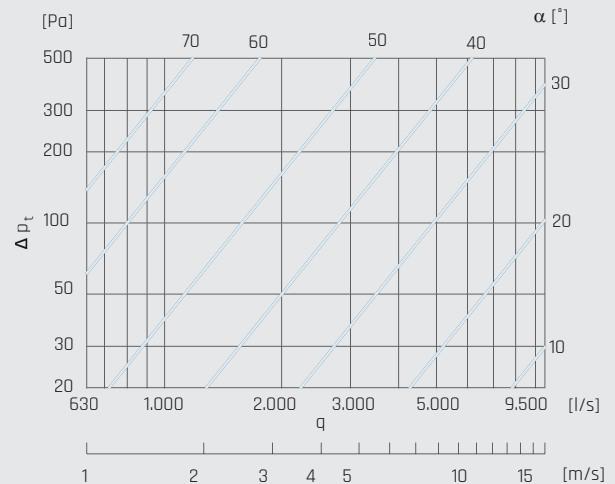
### Ø 710



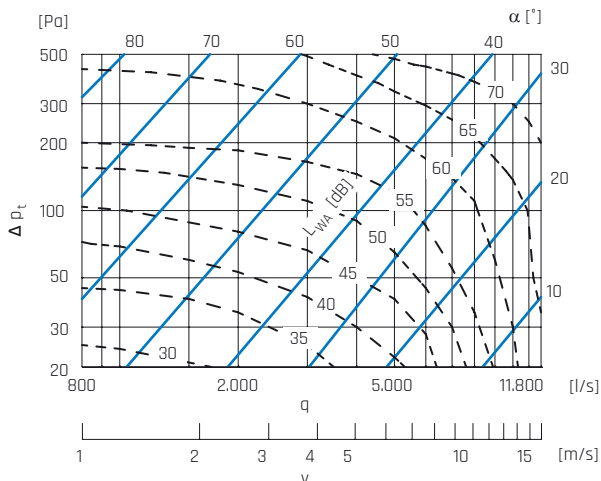
### Ø 800



### Ø 900



### Ø 1.000



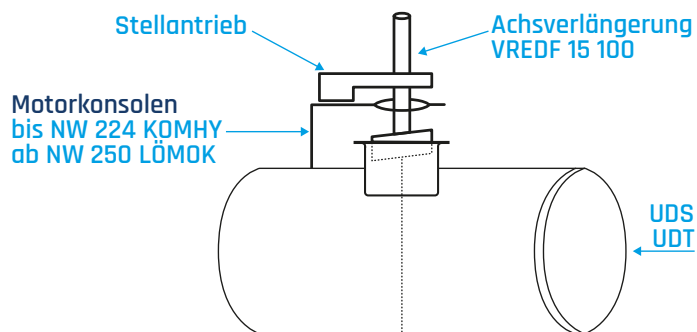






| Dim<br>Ød1<br>[mm] | Druckver-<br>lust [Pa] | Geschwindigkeit ca. 9 [m/s]    |     |     |     |    |    |    |    | Geschwindigkeit ca. 12 [m/s]   |     |     |     |    |    |    |    | Geschwindigkeit ca. 15 [m/s]    |     |     |     |    |    |    |    |
|--------------------|------------------------|--------------------------------|-----|-----|-----|----|----|----|----|--------------------------------|-----|-----|-----|----|----|----|----|---------------------------------|-----|-----|-----|----|----|----|----|
|                    |                        | Mittelfrequenz [Hz]            |     |     |     |    |    |    |    | Mittelfrequenz [Hz]            |     |     |     |    |    |    |    | Mittelfrequenz [Hz]             |     |     |     |    |    |    |    |
|                    |                        | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | 63                              | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| 80                 |                        | <b>Volumenstrom 45 [l/s]</b>   |     |     |     |    |    |    |    | <b>Volumenstrom 60 [l/s]</b>   |     |     |     |    |    |    |    | <b>Volumenstrom 75 [l/s]</b>    |     |     |     |    |    |    |    |
|                    | 500                    | 72                             | 70  | 70  | 70  | 63 | 60 | 53 | 49 | 77                             | 76  | 75  | 75  | 68 | 64 | 56 | 53 | 80                              | 80  | 80  | 80  | 72 | 68 | 60 | 56 |
|                    | 200                    | 70                             | 68  | 67  | 60  | 57 | 48 | 38 | 32 | 75                             | 74  | 71  | 65  | 61 | 51 | 41 | 34 | 78                              | 77  | 72  | 70  | 64 | 53 | 42 | 35 |
|                    | 100                    | 66                             | 65  | 63  | 57  | 51 | 36 | 27 | 18 | 74                             | 73  | 70  | 60  | 57 | 45 | 32 | 25 | 77                              | 75  | 71  | 65  | 58 | 46 | 33 | 26 |
|                    | 50                     | 63                             | 62  | 58  | 52  | 45 | 28 | 18 | 11 | 73                             | 71  | 66  | 55  | 52 | 40 | 25 | 19 | 75                              | 72  | 67  | 58  | 53 | 41 | 26 | 20 |
| 20                 | 59                     | 58                             | 51  | 46  | 38  | 21 | 10 | 5  | 70 | 67                             | 60  | 47  | 44  | 32 | 17 | 13 | 72 | 68                              | 62  | 50  | 47  | 36 | 20 | 15 |    |
| 100                |                        | <b>Volumenstrom 75 [l/s]</b>   |     |     |     |    |    |    |    | <b>Volumenstrom 100 [l/s]</b>  |     |     |     |    |    |    |    | <b>Volumenstrom 120 [l/s]</b>   |     |     |     |    |    |    |    |
|                    | 500                    | 78                             | 75  | 75  | 67  | 64 | 57 | 57 | 57 | 84                             | 81  | 80  | 72  | 68 | 62 | 61 | 61 | 88                              | 86  | 85  | 76  | 72 | 65 | 64 | 64 |
|                    | 200                    | 74                             | 73  | 72  | 64  | 59 | 50 | 47 | 46 | 80                             | 79  | 78  | 69  | 66 | 55 | 51 | 51 | 84                              | 83  | 81  | 72  | 68 | 59 | 55 | 54 |
|                    | 100                    | 73                             | 72  | 71  | 62  | 56 | 46 | 36 | 33 | 79                             | 78  | 75  | 65  | 60 | 49 | 44 | 42 | 82                              | 81  | 78  | 69  | 63 | 54 | 48 | 45 |
|                    | 50                     | 72                             | 70  | 68  | 58  | 51 | 40 | 29 | 23 | 77                             | 76  | 70  | 60  | 53 | 43 | 36 | 31 | 80                              | 79  | 74  | 65  | 57 | 48 | 40 | 35 |
| 20                 | 70                     | 67                             | 63  | 53  | 44  | 33 | 26 | 17 | 74 | 73                             | 65  | 54  | 46  | 37 | 27 | 20 | 78 | 77                              | 69  | 60  | 50  | 41 | 31 | 24 |    |
| 125                |                        | <b>Volumenstrom 110 [l/s]</b>  |     |     |     |    |    |    |    | <b>Volumenstrom 145 [l/s]</b>  |     |     |     |    |    |    |    | <b>Volumenstrom 180 [l/s]</b>   |     |     |     |    |    |    |    |
|                    | 500                    | 83                             | 80  | 76  | 68  | 65 | 58 | 58 | 54 | 89                             | 87  | 81  | 73  | 69 | 62 | 62 | 58 | 91                              | 88  | 83  | 75  | 71 | 63 | 63 | 59 |
|                    | 200                    | 79                             | 78  | 71  | 65  | 58 | 51 | 48 | 47 | 87                             | 85  | 78  | 70  | 63 | 56 | 52 | 48 | 88                              | 86  | 80  | 71  | 66 | 59 | 54 | 49 |
|                    | 100                    | 78                             | 77  | 70  | 61  | 51 | 45 | 39 | 35 | 86                             | 83  | 75  | 66  | 58 | 50 | 44 | 39 | 87                              | 84  | 78  | 69  | 61 | 53 | 47 | 42 |
|                    | 50                     | 77                             | 76  | 68  | 57  | 45 | 39 | 33 | 25 | 84                             | 80  | 71  | 61  | 52 | 44 | 36 | 28 | 86                              | 82  | 75  | 65  | 55 | 47 | 39 | 33 |
| 20                 | 76                     | 75                             | 64  | 53  | 40  | 33 | 30 | 18 | 81 | 76                             | 66  | 55  | 45  | 38 | 32 | 19 | 85 | 81                              | 71  | 60  | 48  | 41 | 34 | 22 |    |
| 160                |                        | <b>Volumenstrom 180 [l/s]</b>  |     |     |     |    |    |    |    | <b>Volumenstrom 240 [l/s]</b>  |     |     |     |    |    |    |    | <b>Volumenstrom 300 [l/s]</b>   |     |     |     |    |    |    |    |
|                    | 500                    | 78                             | 77  | 74  | 67  | 63 | 60 | 59 | 58 | 84                             | 84  | 80  | 72  | 68 | 65 | 65 | 65 | 89                              | 89  | 85  | 77  | 73 | 69 | 69 | 69 |
|                    | 200                    | 76                             | 73  | 70  | 63  | 59 | 53 | 50 | 50 | 80                             | 80  | 77  | 69  | 66 | 58 | 55 | 55 | 85                              | 84  | 80  | 73  | 70 | 64 | 59 | 58 |
|                    | 100                    | 75                             | 72  | 69  | 61  | 54 | 48 | 45 | 44 | 78                             | 76  | 73  | 66  | 61 | 53 | 50 | 48 | 83                              | 80  | 77  | 70  | 65 | 58 | 54 | 52 |
|                    | 50                     | 74                             | 71  | 66  | 58  | 49 | 40 | 38 | 33 | 76                             | 72  | 68  | 62  | 55 | 47 | 43 | 38 | 80                              | 76  | 72  | 66  | 59 | 51 | 47 | 42 |
| 20                 | 73                     | 66                             | 61  | 54  | 43  | 35 | 30 | 25 | 74 | 68                             | 63  | 57  | 48  | 40 | 35 | 27 | 76 | 71                              | 65  | 61  | 52  | 43 | 39 | 30 |    |
| 200                |                        | <b>Volumenstrom 300 [l/s]</b>  |     |     |     |    |    |    |    | <b>Volumenstrom 400 [l/s]</b>  |     |     |     |    |    |    |    | <b>Volumenstrom 475 [l/s]</b>   |     |     |     |    |    |    |    |
|                    | 500                    | 85                             | 79  | 72  | 65  | 62 | 61 | 65 | 65 | 92                             | 85  | 79  | 72  | 68 | 66 | 71 | 70 | 95                              | 89  | 82  | 73  | 71 | 70 | 74 | 73 |
|                    | 200                    | 83                             | 77  | 70  | 62  | 58 | 55 | 54 | 54 | 90                             | 83  | 77  | 69  | 65 | 62 | 61 | 60 | 92                              | 85  | 79  | 71  | 66 | 64 | 64 | 63 |
|                    | 100                    | 82                             | 76  | 69  | 59  | 56 | 53 | 50 | 50 | 88                             | 80  | 73  | 65  | 61 | 58 | 55 | 53 | 90                              | 83  | 76  | 68  | 63 | 61 | 58 | 56 |
|                    | 50                     | 81                             | 74  | 65  | 56  | 52 | 49 | 45 | 42 | 85                             | 76  | 68  | 60  | 56 | 52 | 48 | 45 | 88                              | 80  | 72  | 64  | 59 | 56 | 52 | 48 |
| 20                 | 80                     | 70                             | 60  | 52  | 46  | 43 | 38 | 32 | 81 | 72                             | 62  | 54  | 50  | 45 | 40 | 36 | 86 | 76                              | 67  | 59  | 54  | 50 | 47 | 39 |    |
| 250                |                        | <b>Volumenstrom 450 [l/s]</b>  |     |     |     |    |    |    |    | <b>Volumenstrom 600 [l/s]</b>  |     |     |     |    |    |    |    | <b>Volumenstrom 750 [l/s]</b>   |     |     |     |    |    |    |    |
|                    | 500                    | 78                             | 75  | 68  | 61  | 58 | 61 | 60 | 59 | 87                             | 83  | 76  | 68  | 68 | 68 | 68 | 68 | 94                              | 90  | 82  | 74  | 71 | 74 | 74 | 74 |
|                    | 200                    | 74                             | 69  | 63  | 57  | 55 | 54 | 54 | 53 | 82                             | 79  | 72  | 64  | 63 | 63 | 62 | 61 | 88                              | 84  | 77  | 69  | 68 | 67 | 68 | 65 |
|                    | 100                    | 72                             | 68  | 60  | 56  | 52 | 49 | 45 | 42 | 79                             | 76  | 69  | 62  | 60 | 60 | 58 | 57 | 85                              | 81  | 74  | 67  | 65 | 63 | 62 | 59 |
|                    | 50                     | 69                             | 67  | 58  | 54  | 48 | 44 | 37 | 32 | 76                             | 72  | 65  | 59  | 56 | 54 | 51 | 48 | 82                              | 78  | 70  | 64  | 61 | 58 | 55 | 52 |
| 20                 | 66                     | 65                             | 56  | 52  | 44  | 39 | 32 | 27 | 73 | 68                             | 61  | 56  | 51  | 46 | 42 | 38 | 79 | 75                              | 65  | 60  | 56  | 53 | 47 | 46 |    |
| 315                |                        | <b>Volumenstrom 750 [l/s]</b>  |     |     |     |    |    |    |    | <b>Volumenstrom 1000 [l/s]</b> |     |     |     |    |    |    |    | <b>Volumenstrom 1200 [l/s]</b>  |     |     |     |    |    |    |    |
|                    | 500                    | 82                             | 78  | 71  | 64  | 60 | 60 | 60 | 60 | 89                             | 85  | 77  | 69  | 68 | 67 | 69 | 65 | 92                              | 88  | 80  | 72  | 71 | 70 | 72 | 68 |
|                    | 200                    | 77                             | 72  | 66  | 59  | 58 | 57 | 56 | 52 | 86                             | 79  | 72  | 65  | 63 | 62 | 63 | 58 | 88                              | 83  | 75  | 68  | 66 | 65 | 64 | 59 |
|                    | 100                    | 76                             | 71  | 64  | 57  | 54 | 52 | 50 | 44 | 84                             | 77  | 69  | 62  | 60 | 58 | 57 | 53 | 87                              | 80  | 72  | 65  | 63 | 61 | 59 | 55 |
|                    | 50                     | 75                             | 70  | 61  | 54  | 50 | 46 | 43 | 35 | 82                             | 74  | 66  | 59  | 55 | 52 | 49 | 46 | 85                              | 77  | 69  | 62  | 59 | 55 | 52 | 48 |
| 20                 | 74                     | 68                             | 58  | 51  | 46  | 39 | 36 | 26 | 80 | 71                             | 63  | 56  | 48  | 44 | 39 | 38 | 82 | 74                              | 66  | 60  | 54  | 47 | 46 | 40 |    |
| 400                |                        | <b>Volumenstrom 1200 [l/s]</b> |     |     |     |    |    |    |    | <b>Volumenstrom 1500 [l/s]</b> |     |     |     |    |    |    |    | <b>Volumenstrom 1900 [l/s]</b>  |     |     |     |    |    |    |    |
|                    | 500                    | 88                             | 81  | 74  | 70  | 63 | 66 | 65 | 64 | 95                             | 87  | 79  | 75  | 69 | 71 | 70 | 69 | 98                              | 90  | 82  | 78  | 73 | 74 | 73 | 72 |
|                    | 200                    | 83                             | 76  | 68  | 61  | 60 | 59 | 58 | 54 | 89                             | 82  | 75  | 69  | 67 | 64 | 63 | 60 | 92                              | 84  | 77  | 70  | 69 | 67 | 65 | 63 |
|                    | 100                    | 82                             | 75  | 67  | 60  | 58 | 55 | 53 | 47 | 86                             | 80  | 72  | 66  | 63 | 61 | 58 | 55 | 89                              | 82  | 74  | 68  | 66 | 64 | 61 | 58 |
|                    | 50                     | 80                             | 73  | 65  | 58  | 56 | 51 | 47 | 39 | 83                             | 77  | 68  | 63  | 58 | 56 | 52 | 48 | 86                              | 80  | 71  | 66  | 62 | 59 | 55 | 51 |
| 20                 | 77                     | 70                             | 63  | 55  | 53  | 47 | 42 | 30 | 80 | 74                             | 64  | 60  | 54  | 50 | 45 | 40 | 83 | 78                              | 68  | 64  | 58  | 51 | 47 | 42 |    |
| 500                |                        | <b>Volumenstrom 1800 [l/s]</b> |     |     |     |    |    |    |    | <b>Volumenstrom 2400 [l/s]</b> |     |     |     |    |    |    |    | <b>Volumenstrom 3000 [l/s]</b>  |     |     |     |    |    |    |    |
|                    | 500                    | 91                             | 84  | 76  | 68  | 67 | 68 | 68 | 67 | 96                             | 88  | 80  | 72  | 70 | 73 | 72 | 71 | 102                             | 94  | 85  | 78  | 75 | 77 | 77 | 76 |
|                    | 200                    | 85                             | 78  | 72  | 65  | 63 | 61 | 60 | 57 | 91                             | 84  | 76  | 70  | 66 | 66 | 65 | 61 | 96                              | 89  | 80  | 72  | 68 | 68 | 68 | 67 |
|                    | 100                    | 82                             | 74  | 69  | 62  | 59 | 57 | 55 | 50 | 88                             | 75  | 70  | 63  | 60 | 58 | 56 | 52 | 93                              | 85  | 76  | 69  | 65 | 63 | 61 | 58 |
|                    | 50                     | 79                             | 71  | 66  | 59  | 55 | 52 | 48 | 43 | 85                             | 72  | 67  | 60  | 56 | 53 | 49 | 44 | 90                              | 80  | 72  | 65  | 62 | 57 | 53 | 49 |
| 20                 | 76                     | 67                             | 63  | 56  | 50  | 47 | 41 | 36 | 82 | 69                             | 64  | 57  | 52  | 48 | 43 | 37 | 87 | 75                              | 67  | 61  | 58  | 54 | 46 | 40 |    |
| 630                |                        | <b>Volumenstrom 2800 [l/s]</b> |     |     |     |    |    |    |    | <b>Volumenstrom 3700 [l/s]</b> |     |     |     |    |    |    |    | <b>Volumenstrom 4700 [l/s]</b>  |     |     |     |    |    |    |    |
|                    | 500                    | 96                             | 88  | 80  | 76  | 72 | 72 | 70 | 68 | 103                            | 95  | 86  | 82  | 77 | 77 | 76 | 73 | 107                             | 98  | 90  | 85  | 81 | 81 | 80 | 76 |
|                    | 200                    | 90                             | 83  | 76  | 71  | 67 | 63 | 63 | 56 | 98                             | 90  | 82  | 78  | 74 | 70 | 70 | 62 | 103                             | 95  | 87  | 82  | 78 | 76 | 73 | 66 |
|                    | 100                    | 89                             | 82  | 75  | 68  | 63 | 58 | 55 | 50 | 95                             | 88  | 79  | 74  | 70 | 65 | 63 | 57 | 100                             | 92  | 84  | 79  | 75 | 71 | 67 | 62 |
|                    | 50                     | 87                             | 80  | 72  | 65  | 58 | 52 | 48 | 42 | 92                             | 84  | 75  | 69  | 65 | 60 | 56 | 51 | 97                              | 89  | 80  | 74  | 70 | 65 | 60 | 56 |
| 20                 | 84                     | 77                             | 68  | 61  | 52  | 45 | 42 | 33 | 89 | 82                             | 70  | 63  | 59  | 55 | 49 | 43 | 94 | 86                              | 75  | 68  | 64  | 58 | 52 | 48 |    |
| 800                |                        | <b>Volumenstrom 4500 [l/s]</b> |     |     |     |    |    |    |    | <b>Volumenstrom 6000 [l/s]</b> |     |     |     |    |    |    |    | <b>Volumenstrom 7500 [l/s]</b>  |     |     |     |    |    |    |    |
|                    | 500                    | 78                             | 70  | 66  | 66  | 65 | 64 | 63 | 58 | 83                             | 73  | 69  | 69  | 68 | 66 | 65 | 60 | 84                              | 75  | 71  | 70  | 69 | 67 | 66 | 61 |
|                    | 200                    | 72                             | 64  | 60  | 59  | 57 | 55 | 52 | 46 | 77                             | 67  | 63  | 62  | 60 | 58 | 55 | 49 | 80                              | 70  | 66  | 65  | 63 | 61 | 58 | 52 |
|                    | 100                    | 68                             | 59  | 55  | 53  | 51 | 48 | 44 | 37 | 73                             | 63  | 59  | 57  | 55 | 52 | 48 | 42 | 77                              | 67  | 62  | 60  | 57 | 55 | 51 | 45 |
|                    | 50                     | 66                             | 55  | 51  | 48  | 45 | 42 | 37 | 30 | 71                             | 60  | 55  | 52  | 49 | 47 | 41 | 35 | 76                              | 65  | 61  | 58  | 54 | 52 | 47 | 40 |
| 20                 | 61                     | 46                             | 43  | 39  | 35  | 32 | 25 | 18 | 69 | 58                             | 53  | 50  | 47  | 41 | 37 | 29 | 74 | 63                              | 59  | 56  | 52  | 48 | 43 | 36 |    |
| 1.000              |                        | <b>Volumenstrom 7100 [l/s]</b> |     |     |     |    |    |    |    | <b>Volumenstrom 9450 [l/s]</b> |     |     |     |    |    |    |    | <b>Volumenstrom 11800 [l/s]</b> |     |     |     |    |    |    |    |
|                    | 500                    | 81                             | 74  | 69  | 69  | 67 | 65 | 64 | 58 | 85                             | 77  | 71  | 70  | 68 | 67 | 65 | 60 | 86                              | 79  | 72  | 71  | 69 | 68 | 66 | 61 |
|                    | 200                    | 76                             | 69  | 63  | 60  | 57 | 55 | 53 | 45 | 80                             | 71  | 65  | 64  | 61 | 58 | 57 | 50 | 83                              | 74  | 68  | 67  | 64 | 61 | 60 | 55 |
|                    | 100                    | 72                             | 64  | 58  | 55  | 52 | 49 | 47 | 39 | 76                             | 67  | 61  | 59  | 56 | 54 | 52 | 46 | 80                              | 72  | 65  | 63  | 60 | 59 | 57 | 53 |
|                    | 50                     | 68                             | 60  | 54  | 52  | 48 | 45 | 43 |    |                                |     |     |     |    |    |    |    |                                 |     |     |     |    |    |    |    |





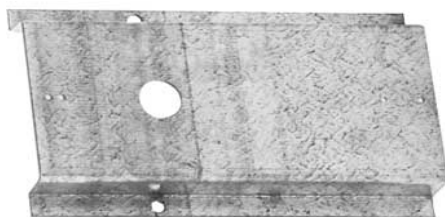
## Handhebel DRHTG

Stabiler Handgriff für Klappen. Passend für alle manuellen Klappen.



## Achsverlängerung VREDF 15 100

Für Klappen mit Motorantrieb. Mit Rundbolzen 15 mm, Länge 100 mm. Am Stellknopf mit Selbstbohrschrauben zu befestigen.



## Universal-Motorkonsole LÖMOK

- für den Einbau von Stellantriebmotoren auf Klappe ab Nennweite 250 mm
- zum Festschrauben an der Rundkonsole
- Achsverlängerung 15/100 erforderlich



## Universal-Motorkonsole KOMHY

- für den Einbau von Stellantriebmotoren auf Klappe bis Nennweite 224 mm
- zum Einhängen in die Rundkonsole und Annieten am Klappengehäuse
- Achsverlängerung 15/100 erforderlich