Revolving doors that combine elegance and functionality:

The main entrance gives a clear statement of your company’s image. It is extremely important that it conveys a positive first impression, as well as allows a smooth flow of traffic. The KTV series of DORMA revolving doors combine these two characteristics perfectly.

DORMA KTV revolving doors also hold back noise, dust and dirt, reliably protect employees in the vicinity of the entrances from draughts, and help to keep heating costs down. DORMA KTV doors are exceptionally versatile. Any inside diameter of door can be supplied from 2000 – 3400 mm. Plus, standard fixed diameters of 3600 mm and 3800 mm are also available. Depending on the diameter, clear passage heights of up to 3000 mm can be achieved. KTV series revolving doors can optionally be fitted with
- 3- or 4-wing design
- glazed drum walls or with metal panelling
- additional curved sliding doors in front of the entrance to act as night shields (optional)
- for manual operation (KTV/M),
- with positioning automatic (KTV/P)
- with servomatic (KTV/S)
- for Automatic operation (KTV/A)
- accessories that ensure compliance with the requirements of DIN 18650

Benefits

... for the installer
- Flexible system to suit all requirements.
- Easy installation and rapid commissioning.
- Guaranteed state-of-the-art design and compliance with all regulations.

... for the architect/specifier
- Extensive design flexibility in terms of planning and technical requirements.
- Visually, technically and economically the ideal application.

... for the user
- Enhanced working conditions.
- Optimisation of the building energy balance.
- Efficient noise protection.
- Tailored integrated application combining industrial engineering precision and assured quality.

Program overview

Traffic capacity 3-/4-wing design

<table>
<thead>
<tr>
<th>Internal diameter (D) in mm</th>
<th>Theoretical capacity(^1) Persons/hour</th>
<th>Practical capacity(^2) Persons/hour</th>
<th>Maximum capacity(^3) Persons/min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>1440</td>
<td>480</td>
<td>24</td>
</tr>
<tr>
<td>2400</td>
<td>1800</td>
<td>600</td>
<td>30</td>
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<td>2700</td>
<td>2400</td>
<td>800</td>
<td>40</td>
</tr>
<tr>
<td>3000</td>
<td>3240</td>
<td>1080</td>
<td>54</td>
</tr>
<tr>
<td>3600</td>
<td>3060</td>
<td>1230</td>
<td>69</td>
</tr>
</tbody>
</table>

1) The theoretical capacity value indicates how many people can pass through the revolving door in one direction per hour, assuming that the traffic flow is uniform and the internal segments are constantly occupied.

2) The practical capacity values indicate how many people can actually pass through the revolving door in one direction and in both directions.

3) The maximum capacity value indicates how many people can pass through the revolving door in one direction per minute when, for a certain limited period, there is a constant stream of traffic, for example in the morning and evening.

DIN 18650

TUV Nord

CE
### Characteristics of KTV-series

<table>
<thead>
<tr>
<th>Detail</th>
<th>KTV with metal ceiling and canopy</th>
<th>KTV with glass ceiling</th>
<th>KTV Atrium full-glass system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drum wall, framed glass</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>Drum wall, metal panelling</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>Full-glass drum wall without frame</td>
<td>–</td>
<td>–</td>
<td>○</td>
</tr>
<tr>
<td>For emergency exits and escape routes</td>
<td>○</td>
<td>3200 – 3800mm</td>
<td>–</td>
</tr>
<tr>
<td>Wings with push handles (version M/P/S)</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Wings with push handles (version A)</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Manual night shield, internal</td>
<td>○</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Manual night shield, external</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Electrical night shield, internal</td>
<td>○</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Mechanical wing locking device</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Mechanical locking device at night shield</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Electrical wing locking device</td>
<td>○</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Electrical locking device, electrical night shield</td>
<td>○ (internal)</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Positioning automatic (P), canopy-integrated operator</td>
<td>○</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Positioning automatic (P), under floor operator</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Servomatic (S), canopy-integrated operator</td>
<td>○</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Servomatic (S), under floor operator</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Automatic (A), canopy-integrated operator</td>
<td>○</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Automatic (A), under floor operator</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>Framed turnstile, rigid</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>Framed turnstile Bookfold (suitable for application in emergency exits and escape routes)</td>
<td>○</td>
<td>3200 – 3800</td>
<td>–</td>
</tr>
<tr>
<td>Framed turnstile, 1-wing, hinged (transport opening)</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>Turnstile with fine-frame profile, rigid</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Wing with center midrails</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>Drum wall with center midrails</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>Floor ring</td>
<td>○</td>
<td>○</td>
<td>–</td>
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<tr>
<td>Floor finish</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>Ceiling-integrated downlights</td>
<td>○</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Prepared for rainproof ceiling</td>
<td>○</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Rainproof ceiling</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>Anti-vandalism brake</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>Speed limiter</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Manufactured according to DIN 18650</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

○ = available as an option        – = not available
## Model overview

**KTV-3**

- **Operator types**
  - Manual operation/M

**KTV-4**

- **Operator types**
  - Manual operation/M

**KTV ATRIUM-3**

- **Operator types**
  - Manual operation/M

**KTV ATRIUM-4**

- **Operator types**
  - Manual operation/M

### Automatic

**Positioning Automatic /P**
The door has to be operated manually and automatically rotates to its starting position following every activation.

**Servomatic /S**
The door is activated by radar motion detector and operated manually while the rotation is power-assisted. The positioning automatic is also included in this version.

**Automatic /A**

I: Door starts and stops automatically  
II: Door rotates continuously at low speed with the speed increasing as a user approaches.

### Configurations

**Transport opening**
Also ideal for the passage of bulky items or luggage, and for consignment deliveries

**Emergency escape configuration**
with breakout fittings (optional)

### Options

**Locking device**
(optional extra)

**Night shields, internal**
(optional extra)

**Night shields, external**
(optional extra)

### Designs, functions, standard equipment, optional extras

<table>
<thead>
<tr>
<th>Models</th>
<th>KTV-3</th>
<th>KTV-4</th>
<th>KTV ATRIUM-3</th>
<th>KTV ATRIUM-4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Automatic</strong></td>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
<td><img src="image3" alt="Diagram" /></td>
<td><img src="image4" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>Positioning Automatic /P</strong></td>
<td><img src="image5" alt="Diagram" /></td>
<td><img src="image6" alt="Diagram" /></td>
<td><img src="image7" alt="Diagram" /></td>
<td><img src="image8" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>Servomatic /S</strong></td>
<td><img src="image9" alt="Diagram" /></td>
<td><img src="image10" alt="Diagram" /></td>
<td><img src="image11" alt="Diagram" /></td>
<td><img src="image12" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>Automatic /A</strong></td>
<td><img src="image13" alt="Diagram" /></td>
<td><img src="image14" alt="Diagram" /></td>
<td><img src="image15" alt="Diagram" /></td>
<td><img src="image16" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>Transport opening</strong></td>
<td><img src="image17" alt="Diagram" /></td>
<td><img src="image18" alt="Diagram" /></td>
<td><img src="image19" alt="Diagram" /></td>
<td><img src="image20" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>Emergency escape configuration</strong></td>
<td><img src="image21" alt="Diagram" /></td>
<td><img src="image22" alt="Diagram" /></td>
<td><img src="image23" alt="Diagram" /></td>
<td><img src="image24" alt="Diagram" /></td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td><img src="image25" alt="Diagram" /></td>
<td><img src="image26" alt="Diagram" /></td>
<td><img src="image27" alt="Diagram" /></td>
<td><img src="image28" alt="Diagram" /></td>
</tr>
</tbody>
</table>
Dimensions of KTV-3 with metal ceiling and canopy cover for internal diameters (D) of up to 3,800 mm

3-wing design (without night shield)

- Internal diameter (D): 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600, 3800
- External diameter (B): 2096, 2296, 2496, 2696, 2896, 3096, 3296, 3496, 3696, 3896
- Clear passage width (LW): 940, 1040, 1140, 1240, 1340, 1440, 1540, 1640, 1740, 1840
- Escape route width: 895, 995, 1095, 1195, 1295, 1395, 1495, 1595, 1695, 1795

3-wing design (with single-piece external night shield)

- Internal diameter (D): 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600, 3800
- External diameter (B): 2262, 2462, 2662, 2862, 3062, 3262, 3462, 3662, 3862, 4062
- Clear passage width (LW): 940, 1040, 1140, 1240, 1340, 1440, 1540, 1640, 1740, 1840
- Escape route width: 895, 995, 1095, 1195, 1295, 1395, 1495, 1595, 1695, 1795

3-wing design (with single-piece internal night shield)

- Internal diameter (D): 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600, 3800
- External diameter (B): 2216, 2416, 2616, 2816, 3016, 3216, 3416, 3616, 3816, 4016
- Clear passage width (LW): 940, 1040, 1140, 1240, 1340, 1440, 1540, 1640, 1740, 1840
- Escape route width: 895, 995, 1095, 1195, 1295, 1395, 1495, 1595, 1695, 1795

All dimensions in mm.

KTV/M/P/S/A

Rigid wings or pivot-mounted wings. Drum wall options:

- Curved aluminium special profiles, posts 70 x 46 mm, base section height (at top and bottom): 100 mm, safety glazing: 8.7 mm laminated safety glass or 8 mm toughened safety glass, uncoloured. Laminated safety glass is pendulum body impact resistant according to class A 1 of DIN 52290 (German Industrial Standard).
- Curved aluminium special profiles, posts 70 x 46 mm, base section 100 mm high top and bottom with metal panelling, 18 mm thick.

KTV-3-ATRIUM GB

With metal ceiling and canopy cover
**KTV/M/P/S/A**

- 3-/4-wing design also with internal or external night shield and safety glass.
- 8.7 mm laminated safety glass or 8 mm toughened safety glass, uncoloured.

Also available with 18 mm metal panelling as an option.

Laminated safety glass is pendulum body impact resistant according to class A 1 of DIN 52290 (German Industrial Standard).

---

**Dimensions of KTV-3 with metal ceiling and canopy cover for internal diameters (D) of up to 3,800 mm**

**4-wing design (without night shield)**

<table>
<thead>
<tr>
<th>Internal diameter (D)</th>
<th>2000</th>
<th>2200</th>
<th>2400</th>
<th>2600</th>
<th>2800</th>
<th>3000</th>
<th>3200</th>
<th>3400</th>
<th>3600</th>
<th>3800</th>
</tr>
</thead>
<tbody>
<tr>
<td>External diameter (B)</td>
<td>2096</td>
<td>2296</td>
<td>2496</td>
<td>2696</td>
<td>2896</td>
<td>3096</td>
<td>3296</td>
<td>3496</td>
<td>3696</td>
<td>3896</td>
</tr>
<tr>
<td>Clear passage width (LW)</td>
<td>1364</td>
<td>1505</td>
<td>1647</td>
<td>1788</td>
<td>1930</td>
<td>2071</td>
<td>2213</td>
<td>2354</td>
<td>2496</td>
<td>2637</td>
</tr>
<tr>
<td>Escape route width</td>
<td>895</td>
<td>995</td>
<td>1095</td>
<td>1195</td>
<td>1295</td>
<td>1395</td>
<td>1495</td>
<td>1595</td>
<td>1695</td>
<td>1795</td>
</tr>
</tbody>
</table>

**4-wing design (with double-leaf external night shield)**

<table>
<thead>
<tr>
<th>Internal diameter (D)</th>
<th>2000</th>
<th>2200</th>
<th>2400</th>
<th>2600</th>
<th>2800</th>
<th>3000</th>
<th>3200</th>
<th>3400</th>
<th>3600</th>
<th>3800</th>
</tr>
</thead>
<tbody>
<tr>
<td>External diameter (B)</td>
<td>2262</td>
<td>2462</td>
<td>2662</td>
<td>2862</td>
<td>3062</td>
<td>3262</td>
<td>3462</td>
<td>3662</td>
<td>3862</td>
<td>4062</td>
</tr>
<tr>
<td>Clear passage width (LW)</td>
<td>1364</td>
<td>1505</td>
<td>1647</td>
<td>1788</td>
<td>1930</td>
<td>2071</td>
<td>2213</td>
<td>2354</td>
<td>2496</td>
<td>2637</td>
</tr>
<tr>
<td>Escape route width</td>
<td>895</td>
<td>995</td>
<td>1095</td>
<td>1195</td>
<td>1295</td>
<td>1395</td>
<td>1495</td>
<td>1595</td>
<td>1695</td>
<td>1795</td>
</tr>
</tbody>
</table>

**4-wing design (with double-leaf internal night shield)**

<table>
<thead>
<tr>
<th>Internal diameter (D)</th>
<th>2000</th>
<th>2200</th>
<th>2400</th>
<th>2600</th>
<th>2800</th>
<th>3000</th>
<th>3200</th>
<th>3400</th>
<th>3600</th>
<th>3800</th>
</tr>
</thead>
<tbody>
<tr>
<td>External diameter (B)</td>
<td>2216</td>
<td>2416</td>
<td>2616</td>
<td>2816</td>
<td>3016</td>
<td>3216</td>
<td>3416</td>
<td>3616</td>
<td>3816</td>
<td>4016</td>
</tr>
<tr>
<td>Clear passage width (LW)</td>
<td>1364</td>
<td>1505</td>
<td>1647</td>
<td>1788</td>
<td>1930</td>
<td>2071</td>
<td>2213</td>
<td>2354</td>
<td>2496</td>
<td>2637</td>
</tr>
<tr>
<td>Escape route width</td>
<td>895</td>
<td>995</td>
<td>1095</td>
<td>1195</td>
<td>1295</td>
<td>1395</td>
<td>1495</td>
<td>1595</td>
<td>1695</td>
<td>1795</td>
</tr>
</tbody>
</table>

All dimensions in mm.
Dimensions of KTV-3 with glass ceiling for internal diameters (D) of up to 3,000 mm

3-wing design (without night shield)

<table>
<thead>
<tr>
<th>Internal diameter (D)</th>
<th>2000</th>
<th>2200</th>
<th>2400</th>
<th>2600</th>
<th>2800</th>
<th>3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>External diameter (B)</td>
<td>2092</td>
<td>2292</td>
<td>2492</td>
<td>2692</td>
<td>2892</td>
<td>3092</td>
</tr>
<tr>
<td>Clear passage width (LW)</td>
<td>940</td>
<td>1040</td>
<td>1140</td>
<td>1240</td>
<td>1340</td>
<td>1440</td>
</tr>
</tbody>
</table>

3-wing design (with double-leaf external night shield)

<table>
<thead>
<tr>
<th>Internal diameter (D)</th>
<th>2000</th>
<th>2200</th>
<th>2400</th>
<th>2600</th>
<th>2800</th>
<th>3000</th>
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<tbody>
<tr>
<td>External diameter (B)</td>
<td>2092</td>
<td>2292</td>
<td>2492</td>
<td>2692</td>
<td>2892</td>
<td>3092</td>
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<tr>
<td>Clear passage width (LW)</td>
<td>940</td>
<td>1040</td>
<td>1140</td>
<td>1240</td>
<td>1340</td>
<td>1440</td>
</tr>
</tbody>
</table>

All dimensions in mm

KTV/M/P/S/A

- Rigid wings, drum walls optionally made of:
  - Curved aluminium special profiles, posts 70 x 46 mm, base section height (at top and bottom): 100 mm and safety glazing: 8.7 mm laminated safety glass or 8 mm toughened safety glass, uncoloured. Laminated safety glass is pendulum body impact resistant according to class A 1 of DIN 52290 (German Industrial Standard).
  - Curved aluminium special profiles, posts 70 x 46 mm, base section 100 mm high top and bottom with metal panelling, 18 mm thick.

KTV-3 with glass ceiling M/P/S/A

Drum wall with safety glass

Drum wall with external night shield
KTV/M/P/S/A

- 3-/4-wing design also with internal or external night shield made of safety glass 8.7 mm laminated safety glass or 8 mm toughened safety glass, uncoloured.

Laminated safety glass is pendulum body impact resistant according to class A 1 of DIN 52290 (German Industrial Standard).

Dimensions of KTV-4 with glass ceiling for internal diameters (D) of up to 3,000 mm

<table>
<thead>
<tr>
<th>4-wing design (without night shield)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal diameter (D)</td>
<td>2000 2200 2400 2600 2800 3000</td>
</tr>
<tr>
<td>External diameter (B)</td>
<td>2092 2292 2492 2692 2892 3092</td>
</tr>
<tr>
<td>Clear passage width (LW)</td>
<td>1364 1505 1647 1788 1930 2071</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4-wing design (with double-leaf external night shield)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal diameter (D)</td>
<td>2000 2200 2400 2600 2800 3000</td>
</tr>
<tr>
<td>External diameter (B)</td>
<td>2188 2388 2588 2788 2988 3188</td>
</tr>
<tr>
<td>Clear passage width (LW)</td>
<td>1364 1505 1647 1788 1930 2071</td>
</tr>
</tbody>
</table>

All dimensions in mm

KTV-4 with glass ceiling M/P/S/A

Drum wall with safety glass

Drum wall with external night shield

All dimensions in mm
Dimensions of KTV-3 with glass ceiling for internal diameters (D) of or beyond 3,200 mm

### 3-wing design (without night shield)

<table>
<thead>
<tr>
<th>Internal diameter (D)</th>
<th>3200</th>
<th>3400</th>
<th>3600</th>
<th>3800</th>
</tr>
</thead>
<tbody>
<tr>
<td>External diameter (B)</td>
<td>3292</td>
<td>3492</td>
<td>3692</td>
<td>3892</td>
</tr>
<tr>
<td>Clear passage width (LW)</td>
<td>1540</td>
<td>1640</td>
<td>1740</td>
<td>1840</td>
</tr>
<tr>
<td>Escape route width</td>
<td>1495</td>
<td>1595</td>
<td>1695</td>
<td>1795</td>
</tr>
</tbody>
</table>

### 3-wing design (with double-leaf external night shield)

<table>
<thead>
<tr>
<th>Internal diameter (D)</th>
<th>3200</th>
<th>3400</th>
<th>3600</th>
<th>3800</th>
</tr>
</thead>
<tbody>
<tr>
<td>External diameter (B1) without cover for door suspension</td>
<td>3388</td>
<td>3588</td>
<td>3788</td>
<td>3988</td>
</tr>
<tr>
<td>External diameter (B2) with cover for door suspension</td>
<td>3458</td>
<td>3658</td>
<td>3858</td>
<td>4058</td>
</tr>
<tr>
<td>Clear passage width (LW)</td>
<td>1540</td>
<td>1640</td>
<td>1740</td>
<td>1840</td>
</tr>
<tr>
<td>Escape route width</td>
<td>1495</td>
<td>1595</td>
<td>1695</td>
<td>1795</td>
</tr>
</tbody>
</table>

All dimensions in mm.

KTV/M/P/S/A

Rigid or pivot-mounted wings, drum walls optionally made of
- Curved aluminium special profiles, posts 70 x 46 mm, base section height (at top and bottom): 100 mm and safety glazing: 8.7 mm laminated safety glass or 8 mm toughened safety glass, uncoloured.
- Laminted safety glass is pendulum body impact resistant according to class A 1 of DIN 52290 (German Industrial Standard).
- Curved aluminium special profiles, posts 70 x 46 mm, base section 100 mm high top and bottom with metal panelling, 18 mm thick.

KTV-3 with glass ceiling M/P/S/A
KTV/M/P/S/A

- 3-/4-wing design also with internal or external night shield and safety glass made of 8.7 mm laminated safety glass or 8 mm toughened safety glass, colourless.

Laminated safety glass is pendulum body impact resistant according to class A 1 of DIN 52290 (German Industrial Standard).

Dimensions of KTV-4 with glass ceiling for internal diameters (D) of or beyond 3,200 mm

4-wing design (without night shield)

<table>
<thead>
<tr>
<th>Internal diameter (D)</th>
<th>3200</th>
<th>3400</th>
<th>3600</th>
<th>3800</th>
</tr>
</thead>
<tbody>
<tr>
<td>External diameter (B)</td>
<td>3292</td>
<td>3492</td>
<td>3692</td>
<td>3892</td>
</tr>
<tr>
<td>Clear passage width (LW)</td>
<td>2213</td>
<td>2354</td>
<td>2496</td>
<td>2637</td>
</tr>
<tr>
<td>Escape route width</td>
<td>1495</td>
<td>1595</td>
<td>1695</td>
<td>1795</td>
</tr>
</tbody>
</table>

4-wing design (with double-leaf night shield)

<table>
<thead>
<tr>
<th>Internal diameter (D)</th>
<th>3200</th>
<th>3400</th>
<th>3600</th>
<th>3800</th>
</tr>
</thead>
<tbody>
<tr>
<td>External diameter (B1)</td>
<td>3388</td>
<td>3588</td>
<td>3788</td>
<td>3988</td>
</tr>
<tr>
<td>without cover for door suspension</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External diameter (B2)</td>
<td>3458</td>
<td>3658</td>
<td>3858</td>
<td>4058</td>
</tr>
<tr>
<td>with cover for door suspension</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clear passage width (LW)</td>
<td>2213</td>
<td>2354</td>
<td>2496</td>
<td>2637</td>
</tr>
<tr>
<td>Escape route width</td>
<td>1495</td>
<td>1595</td>
<td>1695</td>
<td>1795</td>
</tr>
</tbody>
</table>

All dimensions in mm
### Dimensions KTV-ATRIUM-3

#### 3-wing design (without night shield)
- Internal diameter (D): 2000, 2200, 2400, 2600, 2800
- External diameter (B): 2048, 2248, 2448, 2648, 2848
- Clear passage width (LW): 957, 1057, 1157, 1257, 1357

#### 3-wing design (with single-piece external night shield)
- Internal diameter (D): 2000, 2200, 2400, 2600, 2800
- External diameter (B): 2112, 2312, 2512, 2712, 2912
- Clear passage width (LW): 957, 1057, 1157, 1257, 1357

All dimensions in mm.

---

### KTV/M/P/S

Wings rigid, side walls of
- 17.5 mm laminated safety glass (LSG), neutral, with all-round channel-section edging trim
- with optional external night shield of 10 mm toughened safety glass (TSG)

**Ceiling:**
- LSG (TSG) 2 x 10 mm  
  2 x 12 mm (4 four wing design + night shield)  
  external ceiling

**Wing:**
- TSG 12 mm

---

### KTV-ATRIUM/M/P/S

#### Drum wall with safety glass

#### Drum wall with external night shield
KTV/M/P/S

Wings rigid, side walls of
- 17.5 mm laminated safety glass (LSG), neutral, with all-round channel-section edging trim
- with optional external night shield of 10 mm toughened safety glass (TSG)

Ceiling:
- LSG (TSG) 2 x 10 mm
  2 x 12 mm (4 four wing design + night shield)
  external ceiling

Wing:
- TSG 12 mm

Dimensions KTV-ATRIUM-4

4-wing design (without night shield)
Internal diameter (D) 2000 2200 2400 2600 2800
External diameter (B) 2048 2248 2448 2648 2848
Clear passage width (LW) 1379 1520 1661 1803 1944

4-wing design (with double-leaf external night shield)
Internal diameter (D) 2000 2200 2400 2600 2800
External diameter (B) 2112 2312 2512 2712 2912
Clear passage width (LW) 1379 1520 1661 1803 1944

All dimensions in mm.
### 1. KTV-A canopy heights depending on function and installation features

<table>
<thead>
<tr>
<th>Function</th>
<th>Canopy height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual operation</td>
<td>100</td>
</tr>
<tr>
<td>Positioning automatic (Canopy-integrated operator)</td>
<td>200</td>
</tr>
<tr>
<td>Servomatic (Canopy-integrated operator)</td>
<td>100 / 21.5* / 17.5* / 63*</td>
</tr>
<tr>
<td>Automatic (Canopy-integrated operator)</td>
<td></td>
</tr>
<tr>
<td>Positioning automatic (Under floor operator)</td>
<td></td>
</tr>
<tr>
<td>Servomatic (Under floor operator)</td>
<td>100</td>
</tr>
<tr>
<td>Automatic (Under floor operator)</td>
<td></td>
</tr>
<tr>
<td>Manual night shield (Under floor operator)</td>
<td>200</td>
</tr>
<tr>
<td>Electrically operated night shield (Under floor operator)</td>
<td>300</td>
</tr>
<tr>
<td>Speed limiter (Canopy-integrated operator)</td>
<td>200</td>
</tr>
<tr>
<td>Shock-Stop anti-vandalism brake (Canopy-integrated operator)</td>
<td>200</td>
</tr>
<tr>
<td>Overhead warm-air curtain</td>
<td>500/600</td>
</tr>
</tbody>
</table>

* For glass ceilings see product descriptions on page 8-13

The highest indicated height is the decisive factor. Canopy covers of or beyond 700 mm on request. The upper ceiling remains at the minimum height indicated in the table.

### Dependency table for KTV 3/4 with framed turnstile

![Dependency table for KTV 3/4 with framed turnstile](image)

- RF in RAL/anodised with 6 mm toughened safety glass
- RF of stainless steel with 6 mm toughened safety glass (3-wing)
- RF in RAL/anodised with 8 mm toughened safety glass (4-wing)
- RF of stainless steel with 6 mm toughened safety glass (4-wing)

RF = rigid framed
Dependency table KTV 3/4 with turnstile in fine-frame design

- FF in RAL/anodised with 12 mm toughened safety glass (3-wing)
- FF of stainless steel with 12 mm toughened safety glass (3-/4-wing)
- FF in RAL/anodised with 12 mm toughened safety glass (4-wing)

FF = fine-framed

Dependency table KTV Atrium

- Version without night shield
- Version with night shield
## Turnstile versions

<table>
<thead>
<tr>
<th>3-wing design</th>
<th>4-wing design</th>
</tr>
</thead>
<tbody>
<tr>
<td>Framed turnstile, rigid</td>
<td></td>
</tr>
<tr>
<td>Framed turnstile with transport opening</td>
<td></td>
</tr>
<tr>
<td>Framed turnstile with emergency escape configuration</td>
<td></td>
</tr>
<tr>
<td>Rigid turnstile in fine-frame design for internal diameters of max. 3,000 mm</td>
<td></td>
</tr>
</tbody>
</table>
### Wing locks

#### Manual locking device

#### Electro-mechanical locking device

#### Locking device for KTV with glass ceiling (framed wings)

#### Floor locking device for KTV with glass ceiling (wings in fine-frame design)

#### Floor locking device for KTV Atrium

#### Shock-Stop

The Shock-Stop function is able to lock the turnstile in any position. In the event of a power failure the turnstile is released and can be rotated in either direction (fail-safe design).

The Shock-Stop function can only be used with rigid wings and has a holding torque of 1200 Nm.

The activator for the Shock-Stop function must be positioned within sight of the door.
Escape route

The bookfold mechanism for the door wings offers a special folding function. The folding mechanism enables the wings to be folded together almost in parallel, thereby giving the largest possible passage width. This folding capability of the wings makes these doors suitable for installation in emergency exits and escape routes.

Transport opening

The leaf hinge for the transport opening provides a special folding-function for one wing (not available for KTV/Atrium). By folding a single wing, one can create an opening, enabling long objects to be carried through the KTV.

Speed limiter

The speed limiter prevents the wings from rotating above a preset speed. The triggering speed can be preset and is normally set to 6 rpm. When this preset speed is reached or exceeded, the turnstile is automatically slowed down, while still allowing passage through the door.
Warm-air curtain

The warm-air curtain unit consists of a self-supporting housing of zinc-plated steel. The surfaces of the visible parts are plastic-coated. The exhaust duct – with nozzle matched to the radius of the revolving door – is provided at the opening with permanently fitted blades.

The air volume and speed are controlled by means of a remote control unit with switch and indicator light. The device is mounted on the upper ceiling/roof. The exhaust duct is located in front of the internal canopy (in the passage area).

Technical data for a 4-wing revolving door with 3000 mm diameter and clear passage height of 2400 mm.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air flow</td>
<td>3600 m³/h</td>
</tr>
<tr>
<td>Thermal output</td>
<td>25.8 kW</td>
</tr>
<tr>
<td>Heating medium</td>
<td>PWW 70/50 °C</td>
</tr>
<tr>
<td>Water resistance</td>
<td>2.44 kPa</td>
</tr>
<tr>
<td>Total current consumption</td>
<td>4.8 A</td>
</tr>
<tr>
<td>Motor capacity</td>
<td>1.1 kW</td>
</tr>
<tr>
<td>Voltage</td>
<td>230 V, 50 Hz</td>
</tr>
<tr>
<td>Max. sound level at 3 m distance</td>
<td>55 db(A)</td>
</tr>
</tbody>
</table>

Vertical (floor mounted) warm-air curtain to blow air horizontally across the doorway

With low ceilings, you can also install a single or two vertical air-curtains. The performance is adapted to the door size.

Canopy-integrated warm-air curtain

Canopy-integrated warm-air curtains are a cut-price alternative. They blow warm air into the lateral section.
Ceiling structure

DORMA KTV-3
DORMA KTV-4

Drum wall-to-structure connection

Ceiling structure KTV 3/4

View of upper ceiling/roof:
Remains fixed even with higher canopies

Upper ceiling/roof

Raised canopy

Inspection hatch

Lower ceiling of metal

Lower ceiling made of chipboard, melamine-coated (standard)

Drum wall-to-structure connection KTV 3/4

Top drum wall-to-structure connection

Night shield, external

Night shield, internal

Without night shield
KTV with glass ceiling

Top drum wall-to-structure connection

Night shield, external

Without night shield

KTV ATRIUM

Top drum wall-to-structure connection

Night shield, external

Without night shield
Without under floor operator

Floor ring without night shield

Cross-section A – A with sheeting flange in centre axle (Type I)

- Sheet flange in centre axle (Typ I)
- Sheet flange, semicircular design (Typ II)

Cross-section A – A with sheeting flange, semicircular design (Type II)

- Sheet flange
- Sheet by others

A = 86 mm larger than internal diameter (D)
KTV with under floor operator

Floor ring with under floor operator, without night shield
| External pushbutton for autom. night shield (option) 3 x 0.75 mm² (by others) |
| Pushbutton for anti-vandalism brake (option) 2 x 0.75 mm² (by others) |
| External program switch (option) 5 x 0.75 mm² (by others) |
| Equipotential bonding of at least 6 mm² (by others) |
| Power supply line 3 x 1.5 mm² (by others) |

**Wiring diagram KTV/P/S canopy-integrated operator**

![Wiring diagram KTV/P/S canopy-integrated operator](image)

**Wiring diagram KTV/P/S under floor operator**

![Wiring diagram KTV/P/S under floor operator](image)
Wiring diagram KTV/A canopy-integrated operator

- External pushbutton for autom. night shield (option) 3 x 0.75 mm² (by others)
- Potential-free contact for Night-/Bank Function (option) 2 x 0.75 mm² (by others)
- Pushbutton for anti-vandalism brake (option) 2 x 0.75 mm² (by others)
- External program switch (option) 5 x 0.75 mm² (by others)
- Equipotential bonding of at least 6 mm² (by others)
- Power supply line 3 x 1.5 mm² (by others)

Wiring diagram KTV/A under floor operator

- External pushbutton for autom. night shield (option) 3 x 0.75 mm² (by others)
- Potential-free contact for Night-/Bank Function (option) 2 x 0.75 mm² (by others)
- Pushbutton for anti-vandalism brake (option) 2 x 0.75 mm² (by others)
- External program switch (option) 5 x 0.75 mm² (by others)
- Equipotential bonding of at least 6 mm² (by others)
- Power supply line 3 x 1.5 mm² (by others)
Safety equipment for KTV/P/S, 3- and 4-wing design

The KTV has to be equipped with an emergency push-button when choosing version P or S. The door post has to be protected with a collide protection.

Please note: Safety equipment has to be selected according to the national requirements.

In order to comply with DIN 18650, doors require all below-mentioned safety equipment.

<table>
<thead>
<tr>
<th>Function</th>
<th>Impact protection</th>
<th>Stop</th>
</tr>
</thead>
<tbody>
<tr>
<td>① Rubber strip (door post)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>② Emergency pushbutton (door post/near the door, external)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>③ Emergency pushbutton (door post)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Safety equipment for KTV/A, 3- and 4-wing design

DORMA KTV Varioline revolving doors equipped with Automatic operators offer a comprehensive range of safety equipment.

**Fail-safe function**
After the emergency push-button has been activated, the turnstile is disengaged from the drive unit and can then be rotated freely.

**Please note:**
Safety equipment has to be selected according to the national requirements.

In order to comply with DIN 18650, doors require all below-mentioned safety equipment. (Depending on the users, ⑧ can be left out.)

<table>
<thead>
<tr>
<th>Function</th>
<th>Slow cycle/stop</th>
</tr>
</thead>
<tbody>
<tr>
<td>① Canopy-integrated sensor (door post, top/canopy)</td>
<td></td>
</tr>
<tr>
<td>② Rubber strip (door post)</td>
<td>Impact protection</td>
</tr>
<tr>
<td>③ Safety contact strip (wing, bottom)</td>
<td>Stop</td>
</tr>
<tr>
<td>④ Safety contact strip (wing, top)</td>
<td>Stop</td>
</tr>
<tr>
<td>⑤ Emergency pushbutton (door post/near the door, external)</td>
<td>Stop</td>
</tr>
<tr>
<td>⑥ Emergency pushbutton (door post, internal)</td>
<td>Stop</td>
</tr>
<tr>
<td>⑦ Limit switch for deflection device (only for pivot-mounted wings)</td>
<td>Stop</td>
</tr>
<tr>
<td>⑧ Limit switch for deflection device (only for pivot-mounted wings)</td>
<td>Slow cycle/stop</td>
</tr>
<tr>
<td>⑨ Disabled access pushbutton (door post)</td>
<td>Slow cycle</td>
</tr>
</tbody>
</table>
KTV versions for secured access

DORMA KTV revolving doors can be fitted with security equipment for controlled access depending on their equipment and the prevailing version/configuration.

Level 1: SHOCK STOP
- Anti-vandalism brake: You can block the door immediately in any position by activating a pushbutton.
- Holding torque: 120 Nm
- No access control system, only a manual blockade.

Level 2: ACCESS CONTROL
- Access authorization via external activator (card reader etc.)
- Following the access authorization, the door turns in one direction (one round), then it locks automatically
- Passive access control from one side

Level 3: SECURE
- Access authorization via external activator (card reader etc.)
- Electronically monitored and automatic KTV-system for controlled access
- Unauthorized users are rejected with the aid of an active monitoring of the sections and a reversing function (reversing of rotation direction)
- Active access control from both sides – the door rotates in two directions
- Low-Energy-Mode
- You can switch the system to standard P/S operating mode

Application:
- For KTV in all diameters
- For KTV/M/P/S operator with speed limiter
- For KTV/operator type A

Application:
- For KTV in all diameters
- Only for KTV/operator type A

Application:
- Diameters from 1.6 – 2.4 m (up to 3.8 m on request)
- KTV SECURE operator
KTV SECURE

inside

Activator (e.g. card reader)

Two rotation directions

monitored no access area,
no parallel unauthorized access possible

outside

Activator (e.g. card reader)
Automatic Division worldwide

**Movable Walls**

DORMA GmbH + Co. KG
Breckerfelder Str. 42–48
D-58256 Ennepetal
Phone +49 2333 793-0
Fax +49 2333/793-495

**Access (STA)**

Region Australia
AUS, NZ
Australia
DORMA Automatics Pty. Ltd.
Phone +61 3 97964111
www.dorma.com.au

New Zealand
DORMA Automatics Pty. Ltd.
Phone +61 3 97964111
www.dorma.com.au

**Security/Time and Access (STA)**

Region Central Europe
D, NL, B, LX, CH

Germany
Automatic D
Phone +49 2333 793-0
www.dorma.de

Netherlands
DORMA van Duijn Nederland BV
Phone +31 488 418 100
www.dorma.nl

Belgium
DORMA foquín N.V.S.A.
Phone +32 50 312849
www.dorma.be

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www.dorma.lu

Switzerland
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Phone +41 71 8864646
www.dorma.ch

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DORMA Polska Sp. z o.o.
Phone +48 22 736 59 00
www.dorma.pl

Russia
Representative Office in Russia
Phone +7 099 2581225
www.dorma.ru

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DORMA Representation Ukraine
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www.dorma.com

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DORMA Bulgaria
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www.dorma.com

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DORMA Representation Greece
Phone: +30 21 09944388
www.dorma.com

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Phone: +90 216 3600056
www.dorma.com

India
DORMA Door Controls India
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www.dorma.com

Israel
DORMA GmbH + Co. KG
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www.dorma.com

South Africa
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www.dorma.com

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www.dorma.com.sg

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DORMA Door Controls Pte. Ltd.
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www.dorma.com.hk

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www.dorma.com.sg

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www.dorma.com.my

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DORMA Emerald Entrance Systems Pte Ltd.
Phone +65 459 5733
www.dorma.com.my

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DORMA Accueil S. A. S.
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DORMA ARABIA
Phone +966 5 847 2394
www.dorma.com

Region North America
USA, CDN, MEX

USA
DORMA Automatics Inc.
Phone +1 301 390-3600
www.dorma-usa.com

Canada
DORMA Door Controls
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www.dorma.com

Mexico
DORMA México, S. de R.L. de C.V.
Phone +52 55 5272 6937
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A, H, CZ, CS, HR, SL, RO

Austria
DORMA AKS Automatic GmbH
Phone +43 6225 8636-79
www.dorma.at

Hungary
DORMA AKS Automatic GmbH
Phone +36 1 2065127 or 2058058
www.dorma.com

Region South-East Europe

Czech Republic
DORMA a.s. teknikum CR, s.r.o.
Phone +420 2 671321-79 or -79
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www.dorma.it

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Phone: +34 91 8757851
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DORMA Portugal para Portas, Ltda.
Phone +351 252 860 490
www.dorma.com

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GB, IRL

Great Britain
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Phone +44 1462 477600
www.dorma.uk.co.uk

Ireland
DORMA Ireland Limited
Phone +353 1 295 8280
www.dorma.com