



# Thermoplastic Ventilation

*Pipe systems for ventilation systems, moulded from thermoplastic materials. Our range includes easily assembled components for various plastic pipes such as PVC, PPS, PP, PPs-el and PE, spanning diameters from 11 O mm to 1400 mm.*

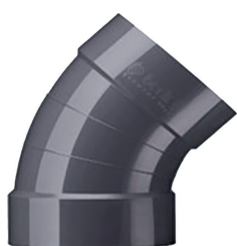


## PIPES

All pipes are available in chemically resistant thermoplastic materials PVC, PPs, PPs-el. Depending on dimensions, the pipes are available in extruded design or formed from sheeting with a longitudinal seam. In addition, the pipes can also be supplied with a single-end socket connection.

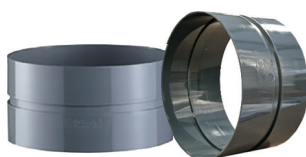
## FITTINGS

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### Bends

Bends, suitable for gaseous, aggressive, and corrosive media are available in various thermoplastics with different operating temperatures. Injection-molded bends up to  $\varnothing$  400 mm ensure geometric ratio. Segment-free bends from  $\varnothing$  450 mm to  $\varnothing$  1.000 mm are made with a technical forming process. Support rings are added to retain coupling precision after production.



### Sockets / End Caps

The double socket is a formed part used for connecting pipe components through welding or PVC gluing. It is injection-molded up to  $\varnothing$  315 mm and mechanically formed in sizes from  $\varnothing$  355 mm to  $\varnothing$  1.000 mm, meeting the minimum wall strength as per DIN 474.



### Reductions

Reductions feature interior pipe guidance stops for welding pipe components. Reductions up to  $\varnothing$  315 mm are injection molded, while larger ones are mechanically formed seam-free. Minimum wall strength meets DIN 4741, with at least 3 mm for small diameters. Slimline design and slight conicity minimize turbulence and pressure loss, distinguishing the product from others. Standard market designs with high conicity have high pressure loss and are outdated.



## T-pieces

They are injection-molded up to 0 315 mm and mechanically formed seamlessly starting from 0 355 mm. With a minimum wall strength of 3 mm and/or compliance with DIN 4741, T-pieces possess both flow and outlet diameters. To enhance flow, T-pieces can be supplied with a 45° outlet as an alternative to the standard 90° outlet. It's common for T-pieces to be installed with a reduced outlet, allowing a branch line to be taken from the main line, also available with a 45° outlet.

## Flanges

- Round plastic formed part designed as GS flange/flange for pipe installation
- Design features:
  - GS Flanges, Flanges
  - GS Flanges hot molded up to diameter 400
  - Machine-manufactured flanges from diameter 450
  - Minimum wall thickness of 3 mm or as per DIN 4741 standards
  - One-sided sleeve joint
  - Joined through welding
- Temperature application: follows material specifications

## DAMPERS

### Manual

The manual dampers are available with continuous adjustment or in 15° increments. In the continuous variant, an additional third O-ring is installed to seal the shaft. This special feature allows adjustment of the seal while installed. The manual dampers of the 15°-increment variant engage via a spring-loaded adjustment button, while the continuous variants up to DN 400 are supplied with a graduated collar 0–90° and a stainless steel locking screw to lock the adjustment button in place. The manual dampers from DN 400 onwards have a two-handed grip for secure adjustment.

### Electric & Pneumatic

The standardized motor consoles are compatible with all conventional pneumatic and electric actuators. Special consoles are available on request. Simply tell us the motor type and we will build the corresponding motor console for your damper.



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