

Shut-off damper ZL-3N

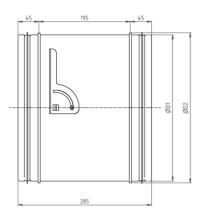
Application

ZL-3N airtight shut-off dampers are used to close the air supply or exhaust in ventilation systems, which must ensure a high state of cleanliness in the room. They are mainly used for systems that have built-in high-efficiency filters. Highefficiency filters become clogged with use, which increases the pressure drop across the filter. In order to achieve a constant air flow through the filter, the pressure drop must be compensated. High-efficiency filters are usually designed with an initial pressure drop ΔpZ of 140 or 250 Pa on a new filter. When the pressure drop on the filter increases to the double value of the initial pressure drop, the filter cartridge must be replaced. The mentioned difference in pressure drop is compensated by adjusting the airtight damper so that the total pressure drop Δpt on the filter and on the damper is equal to the double value of the air pressure drop on the high-efficiency filter.

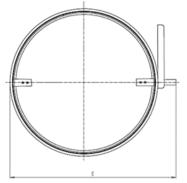
By increasing the pressure drop on the filter, open the airtight damper so that Δpt is constant (2 x Δpi). When replacing the filter inserts, the ducts must be tightly closed.

Description

Airtight shut-off dampers ZL-3N consist of a housing and a damper made of galvanized sheet metal, a rubber seal and a regulation mechanism. All ZL-3N dampers have a rubber seal on the connections. Manual, pneumatic or electronic regulation is available. ZL-3N are manufactured in accordance with the requirements of EN 1751, class 4 and tightness of the housing C.





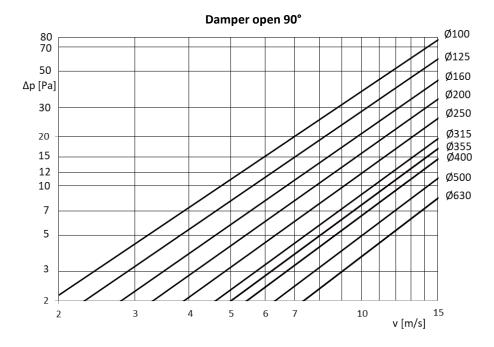


Dimensions and sizes

Size	100	125	160	200	250	315	355	400	500	630
Ø D1	98	123	158	198	248	312	353	397	496	626
Ø D2	104	129	164	204	254	318	358	403	502	632
E	142	167	202	242	292	356	397	441	540	670



Pressure drop diagram



Ordering key

