

# Iris Dampfer SPI



# Iris Damper SPI, air tightness to Class C



**Quick, silent and efficient** is the simple summary of the features of the SPI Iris Damper for the adjustment and measuring of airflow.

## Quick and simple installation and maintenance

Balancing the airflow is normally a time consuming operation when commissioning a ventilation system.

The linear choking characteristics of the Systemair SPI damper, simplifies this operation. Adjustment and measuring is carried out in the same operation, reducing the on site time to achieve correct airflow. The result is a permanent comfortable indoor climate.

The SPI damper is delivered locked in the fully open position, facilitating pressure testing of the system. A graduated scale of 'K' factors is located on the outer edge of the damper so as not to be obscured by insulation and each damper is supplied with full mounting and adjustment instructions to make the installation quick and simple.

Every Systemair SPI Iris Damper is factory calibrated. Extended spigot connections are a standard feature to avoid damage to the seal when riveting to ducting.

## 100% Opening capacity

The SPI can be fully opened, eliminating the need for an access door for cleaning purposes.

## Low Noise Generation

The design of the adjustment function together with the geometry of the SPI, results in low noise generation under volume control. A conventional damper will increase the air velocity along the duct walls resulting in high generated noise under volume control. The 'Iris' aperture is close to ideal from a flow technology aspect. The Iris damper increases the air velocity with low levels of noise generation provided the instructions are followed in relation to the location of bends and junctions.

## The correct properties

The construction is simple, but gives excellent adjustment properties.

The SPI damper is manufactured to air tightness class C and can work equally well with the airflow in either direction, eliminating the risk of incorrect installation.



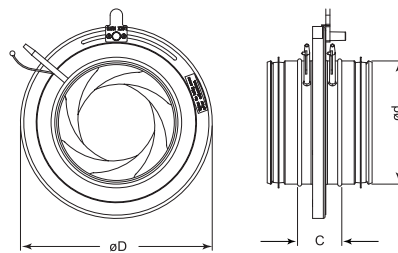
# High accuracy and excellent adjustment properties



The table to the right shows the compact measurements of the SPI, which is an advantage as space is often limited.

## SPI-F Motorised

Where the ventilation requirements are variable, dependent on say temperature or CO<sub>2</sub>, the SPI-F, motorised unit may be used. The motor will receive a signal from the installed sensor and vary the air supply accordingly.

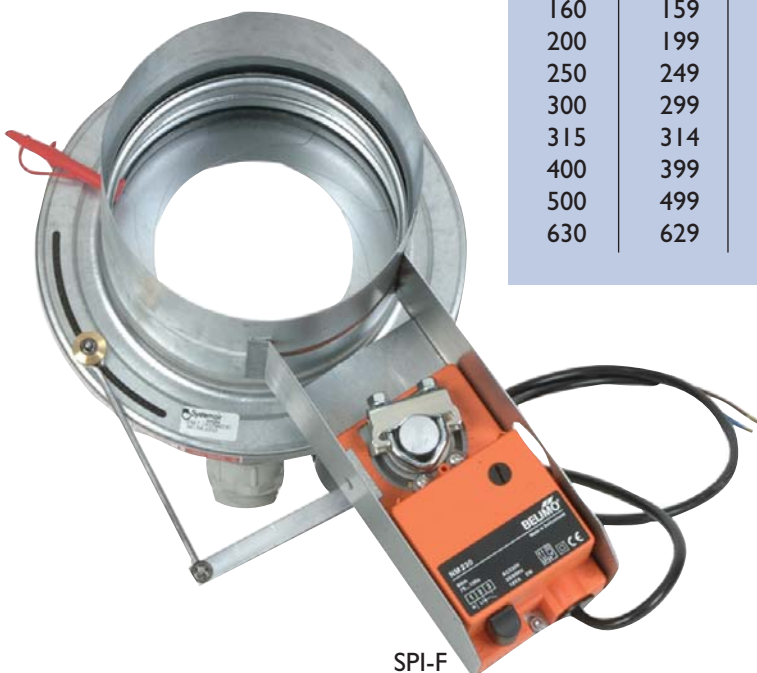


Size of SPI	ød	C	øD
100	99	54	163
125	124	63	210
150	149	54	230
160	159	60	230
200	199	62	285
250	249	62	333
300	299	65	405
315	314	63	406
400	399	70	560
500	499	60	644
630	629	60	811

The maximum/minimum opening position can be adjusted manually using the release button on the unit. Once set the damper will return to automatic operation.

## SPM - More choking ability

The SPM should be used where complete closing is required. When using the SPM we recommend the installation of the RLL access door with the unit.



SPI-F



RLL



SPM