Control Dampers
WDD WDDX

Introduction

The Waterloo range of control dampers has been designed to provide positive control of air flow within ventilation and air conditioning systems. The range is constructed from high quality aluminium extrusions and are suitable for flanged or spigoted connection within square, rectangular, circular or flat oval duct systems. Adjustable manually or electrically, the range comprises WDD control dampers and WDDX shutoff dampers

Product Description

WDD/F	Control damper, right angled frame with flange
WDD/SPG	Control damper. Circular connections
WDDX/F	Shut off damper, right angled frame with flange
WDDX/SPG	Shut off damper, Circular connections
M	Manual control with lockable/removable control knob operator
S	Spindle control, 12 mm square, 100 mm long for use with actuators. Waterloo use Belimo actuators that can be supplied and fitted on request

Features

- Robust yet lightweight blade and frame construction
- Casing leakage satisfies classes A-D of DW142
- Opposed aerofoil blade operation
- All operating gear out of ducted airway
- Blade position indicator
- Flanged version supplied with elongated bolt holes to fit 20-35 mm flanges
- Fully enclosed blade linkage mechanism
- Folded edge flanges suitable for clamp & sealing strips
- Stainless steel side seal gaskets
- Good adjustability characteristics even with small ducts.

Weight

WDD/F or WDDX /F	10 kg/m^2
WDD/SPG or WDDX/SPG	21 kg/m^2

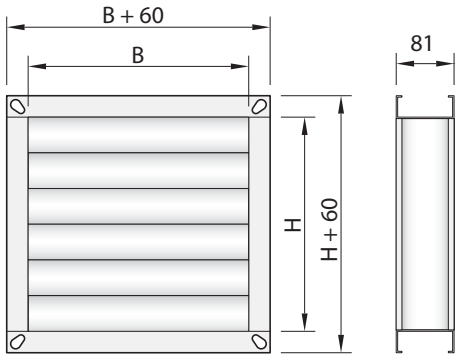
Dimensions

WDD/F	Width W 100 to 1000 mm
	Height H 100 to 1000 mm at 50 mm intervals
WDDX/F	Width W 100 to 600 mm
	Height H 100 to 600 mm at 50 mm intervals
WDD/SPG	Diameter D 100 to 1000 mm
WDDX/SPG	Diameter D 100 to 600 mm

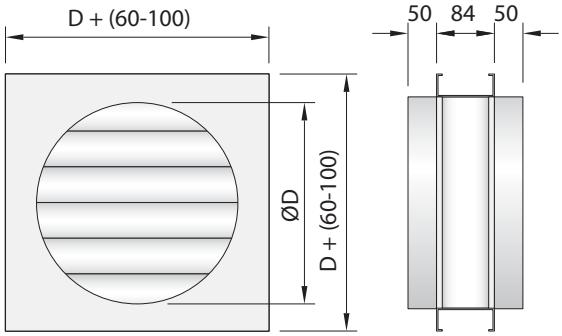
Order Example

WDDF/300/300

Type
Nominal Width
Nominal Height



WDD-F
WDD-X-F



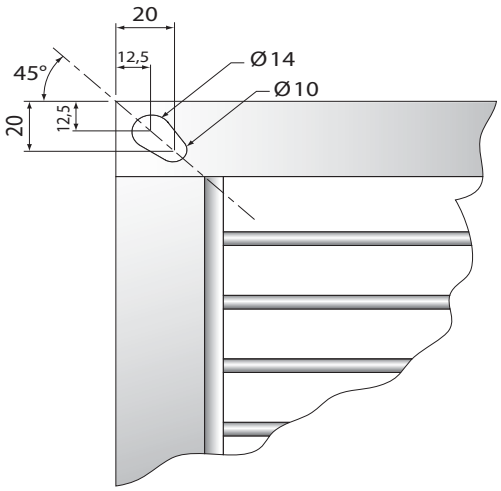
WDD-Spg
WDD-X-Spg

WDD Blade

WDD-X Blade

Control Dampers
WDD WDDX

WDD-Spg-M



Pressure loss and Noise generation

Selection

Duct area (m²)	Correction (dB)
0,01	- 10
0,05	- 3
0,10	0
0,15	+ 2
0,20	+ 4
0,50	+ 7
1,00	+ 10

In duct blade leakage