

**OBD2**

**Air control dampers**

## Air control damper OBD2

### Air control dampers

#### Application

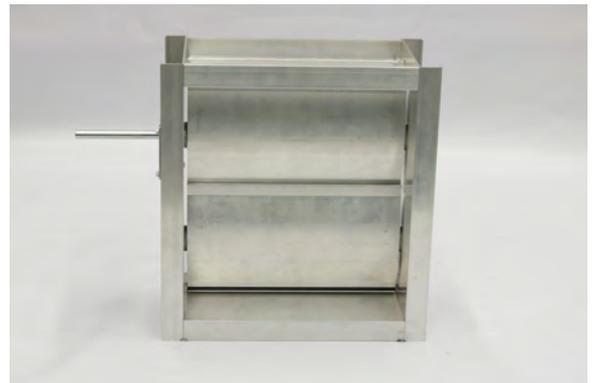
The aluminium air control dampers, with opposed rotating blade profiles type OBD2-180 or with parallel rotating blade profiles type PBD2-180, are designed to control the air volume in air handling systems. The maximum authorized air velocity is 10 m/s. Blades only mounted in horizontal position.

#### Characteristics

The control dampers have a mounting length of 180mm and are equipped with Nylon glass fiber strengthened bearings and rubber sealing profiles on the blades.

#### Standard version

The control dampers are composed from extruded aluminium profiles. The blades are equipped with Nylon glass fiber strengthened bearings and rubber sealing profiles on the blades. The control dampers are equipped with a round spindle so that an actuator can be mounted directly on it (-S). Actuator prepared version with spindle (-S (50mm), flat bearing bridge, (-SL (115mm)) and (-SXL (180mm)) with incremented bearing bridge. Flange is not equipped with mounting holes.

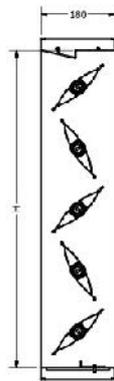
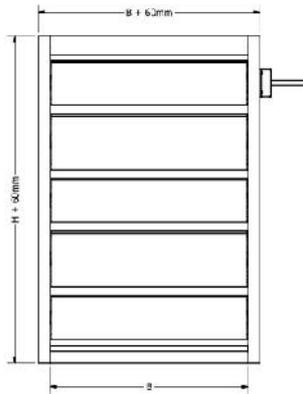


## Technical details OBD2-180

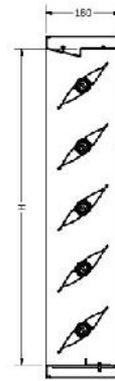


**OBD2-180-**  
**PBD2-180-**

- O** Opposed rotating
- P** Parallel rotating
- B** Blade
- D** Damper
- 2** Airfoil blade profile
- 180** Length 180mm
- S** Round Spindle L=50mm
- SL** Round Spindle L=115mm
- SXL** Round Spindle L=180mm
- H** Manual Lever with fixation



OBD2-180



PBD2-180

## Technical details OBD2-180

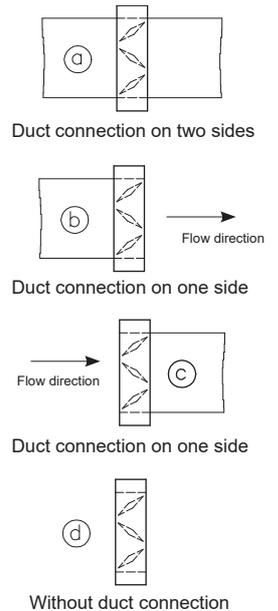
$\zeta$ - Value at opposed rotating valve position (OBD2-180)				
	0-10°	30°	60°	80°
a	0,21	3,9	140	10000
b	2,1	9	150	10000
c	0,9	5	140	10000
d	3,9	10	150	10000

$\zeta$ - Value at parallel rotating valve position (PBD2-180)				
	0-10°	30°	60°	80°
a	0,21	1	10	160
b	2,1	3,9	16	170
c	0,9	1,8	10	160
d	3,9	5,5	17	170

$$DP = \zeta \times 0,5 \times V^2$$

DP = Pressure drop in Pa  
= dzeta value

= Air density (dry air at 20° C and 1 bar = 1.188 kg/m<sup>3</sup>). V = Air velocity in m/sec.



Width	Height
200	175
300	325
400	475
500	625
600	775
700	925
800	1075
900	1225
1000	1375
1100	1525
1200	1675
1300	1825
1400	1975
1500	-
1600	-
1700	-
1800	-
1900	-
2000	-

