

## Description and application:

Single leaf dampers are used to control the air flow in ventilation round ducts and often behind external intake louvres. They are adapt to connection with spiral ducts, in standard without additional mounting flanges. Type of drives :

- manual (PJ-BR)
- with actuator (PJ-BE)

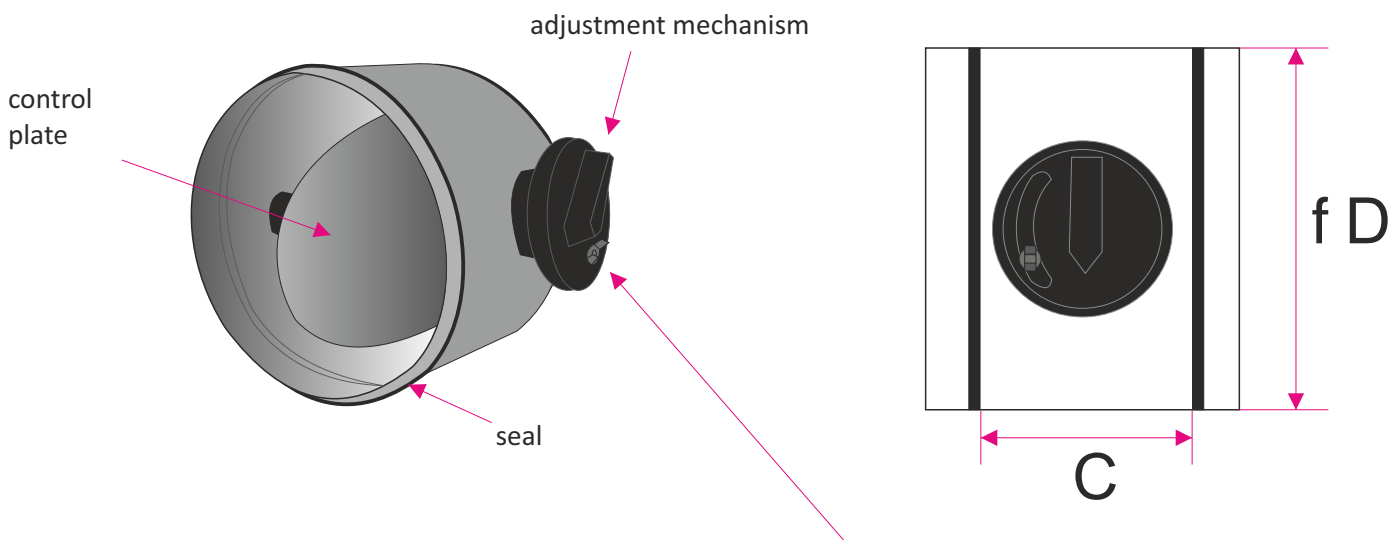
## Damper has Hygienic Certificate

## Material and workmanship

The damper is made of galvanized steel. Adjustment cap is made of plastic. On request it is possible to make damper from stainless steel (type 1.4301 or 1.4404).The manufacturer reserves the right to make technological changes.

## Size

The dampers are manufactured to order. The dimensions of dampers are chosen according to diameter of spiral ducts in which they are mounted.



Ducts size f Dn	Size f D	Size C
	mm	
100	97	130
125	122	130
160	157	130
200	197	130
250	247	80
315	312	80
355	352	80
400	397	80
450	447	80
500	497	80
560	557	80
630	627	80
710	707	80
800	797	80

Other dimensions on request.

blocking mechanism regulating damper:

In order to regulating damper unscrew the damper mechanism blocking the left, rotate the regulating mechanism to set the damper plate and blocking the damper by tightening the locking mechanism right.

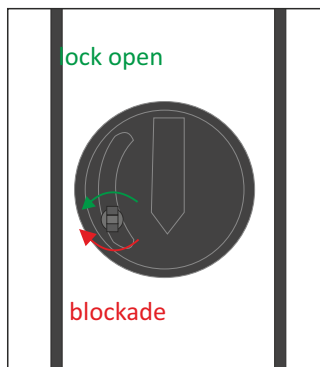
The dimensions of the dampers are adjusted to the nominal size of duct and are ended seals.

## Control methods

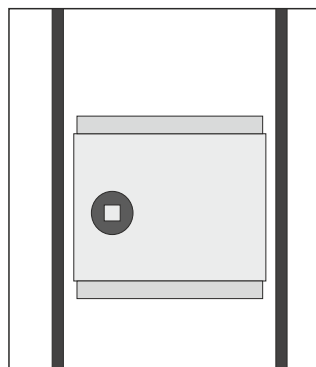
We offer two types of mechanism to control the damper:

- using manual mechanism (PJ-BR)
- using the actuator mechanism (PJ-BE)

### PJ-BR - manual



### PJ-BE - using actuator



mechanism for connecting the actuator (not included)

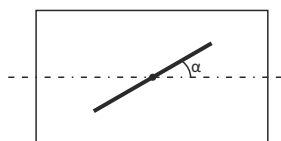
## Technical data

### Pressure drop and acoustic power depending on the efficiency and the angle of the damper

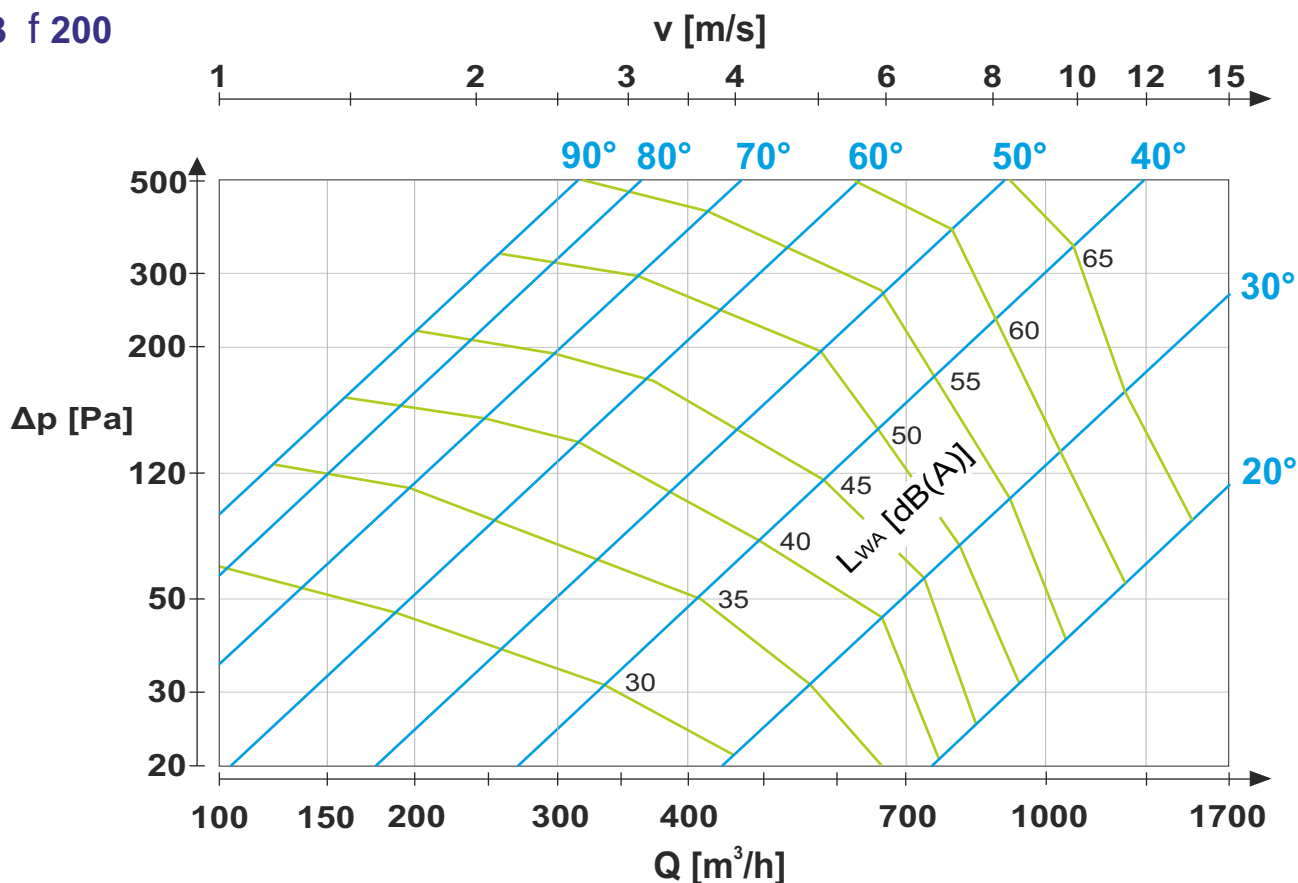
**Symbol:**

- $Q$  [m<sup>3</sup>/h]- air volume flow
- $L_{WA}$  [dB(A)]- acoustic power level
- $DP$  [Pa]- pressure drop
- $v$  [m/s]- air speed in the duct

- $\alpha=0^\circ$  damper in the open position
- $\alpha=90^\circ$  damper in the closed position



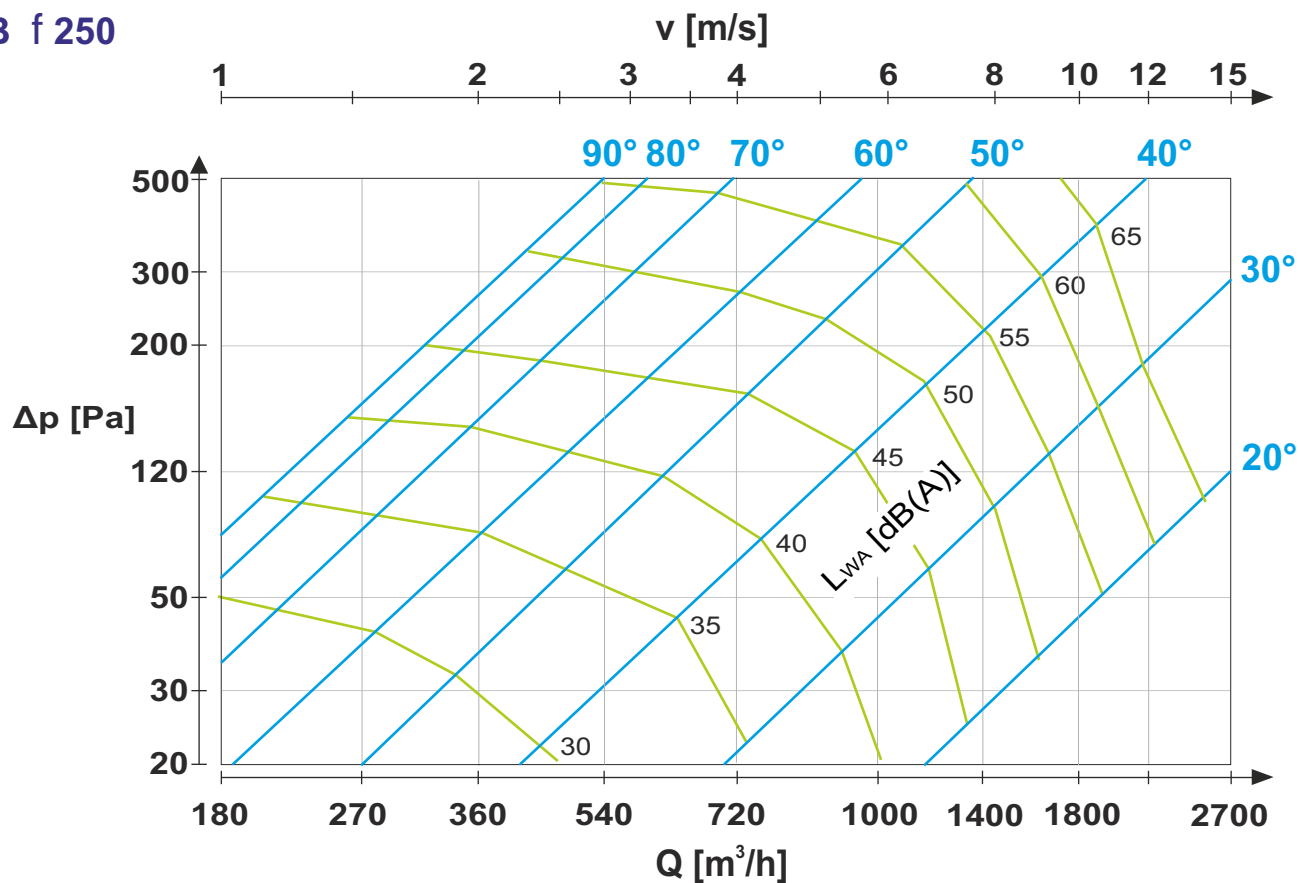
### PJ-B f 200



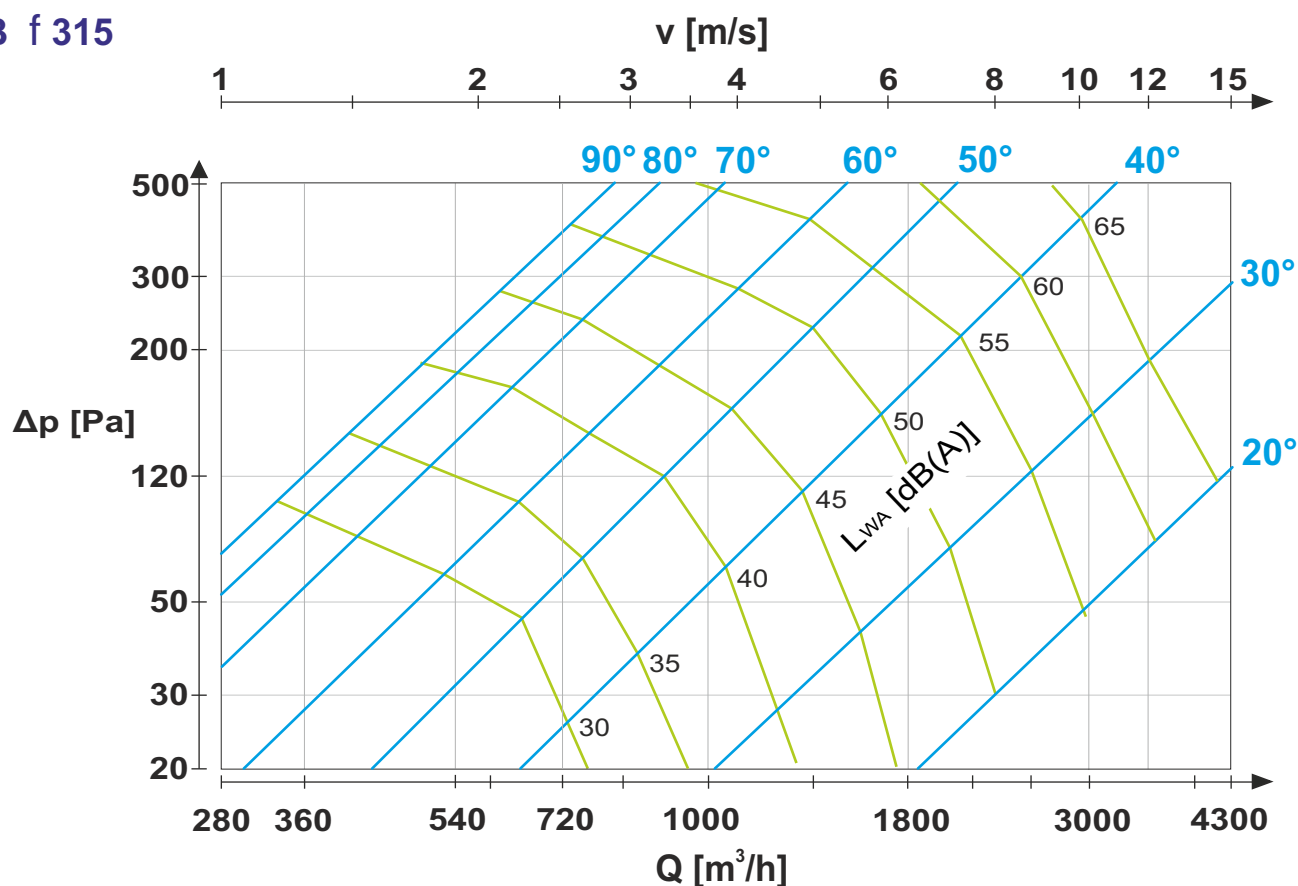
## Technical data

Pressure drop and acoustic power depending on the efficiency and the angle of the damper

## PJ-B f 250



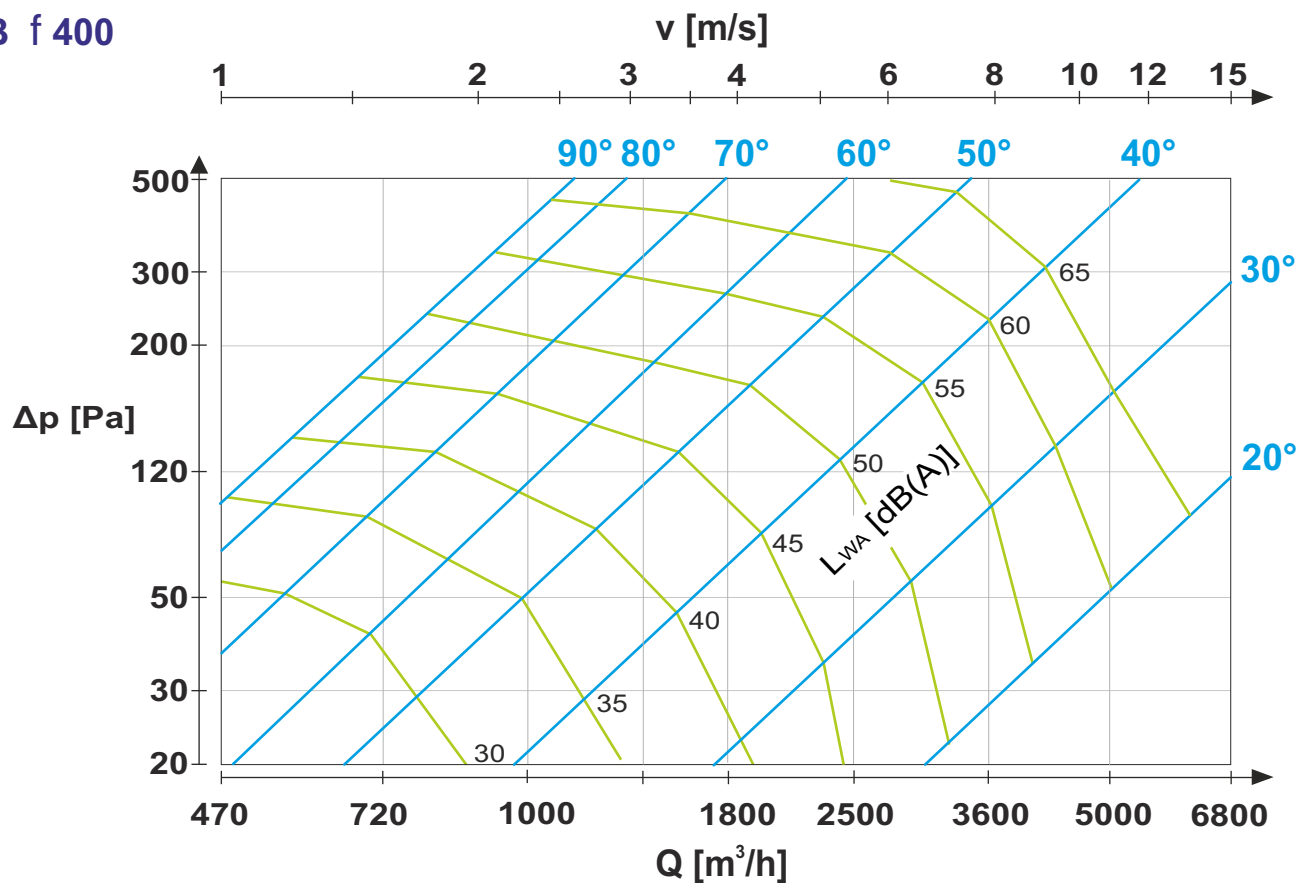
## PJ-B f 315



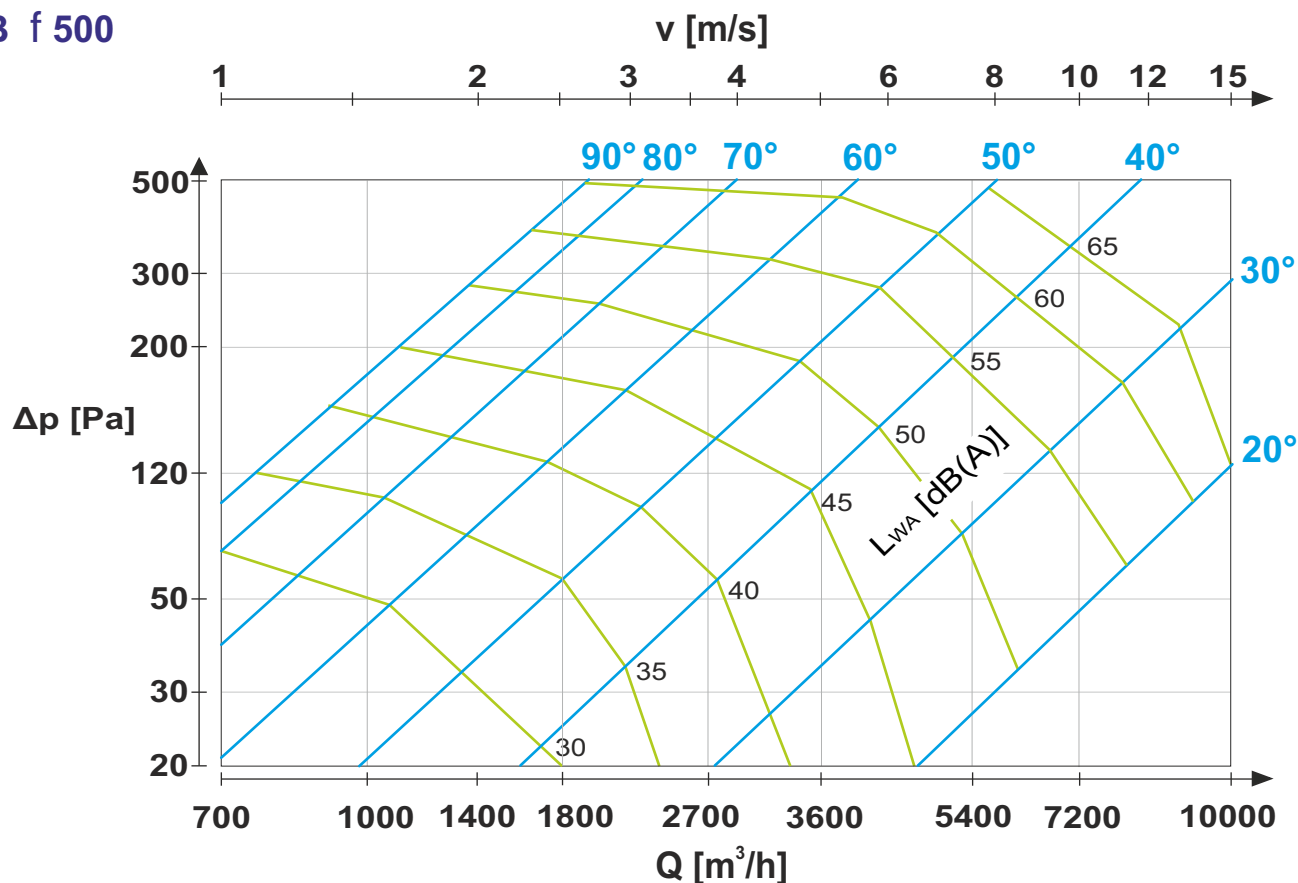
## Technical data

Pressure drop and acoustic power depending on the efficiency and the angle of the damper

## PJ-B f 400



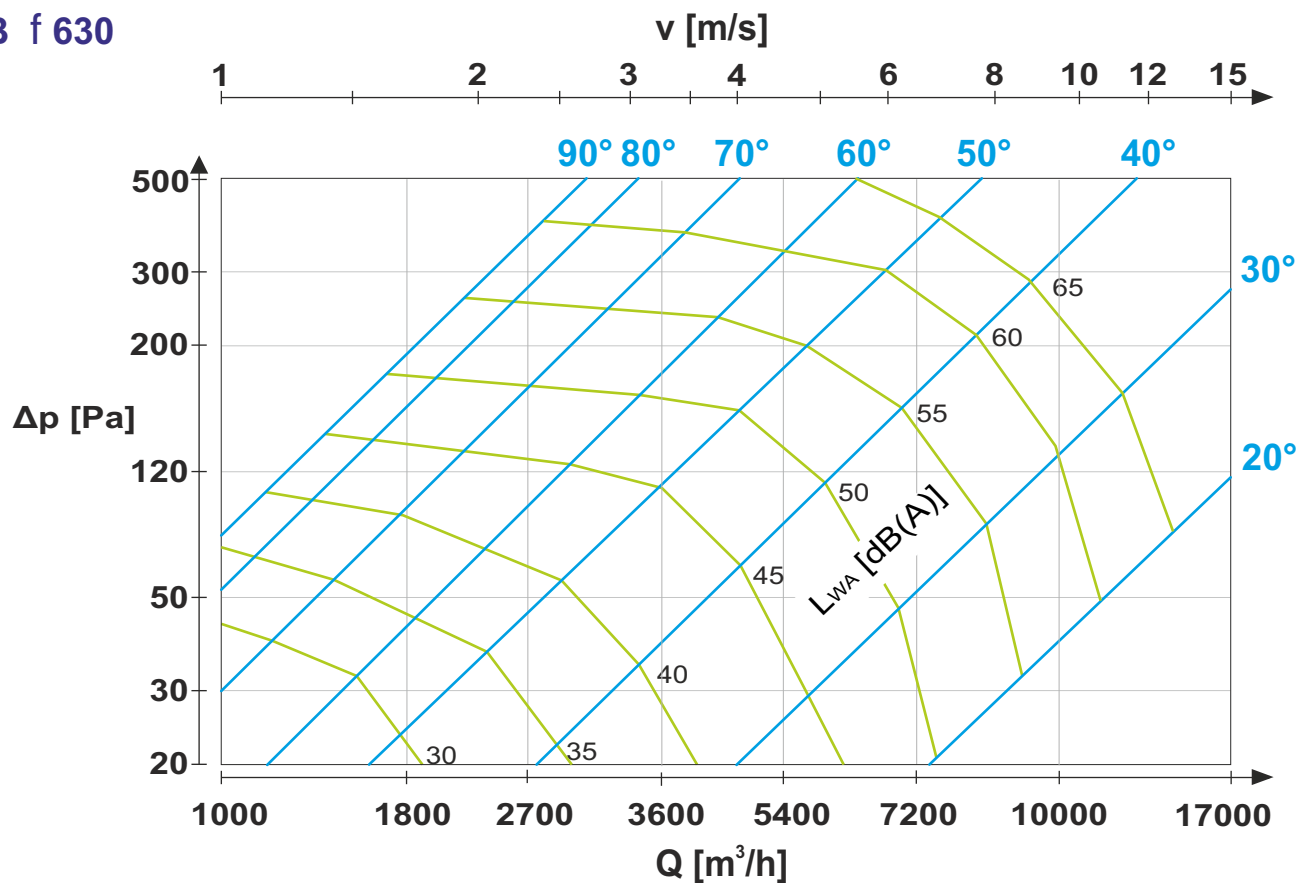
## PJ-B f 500



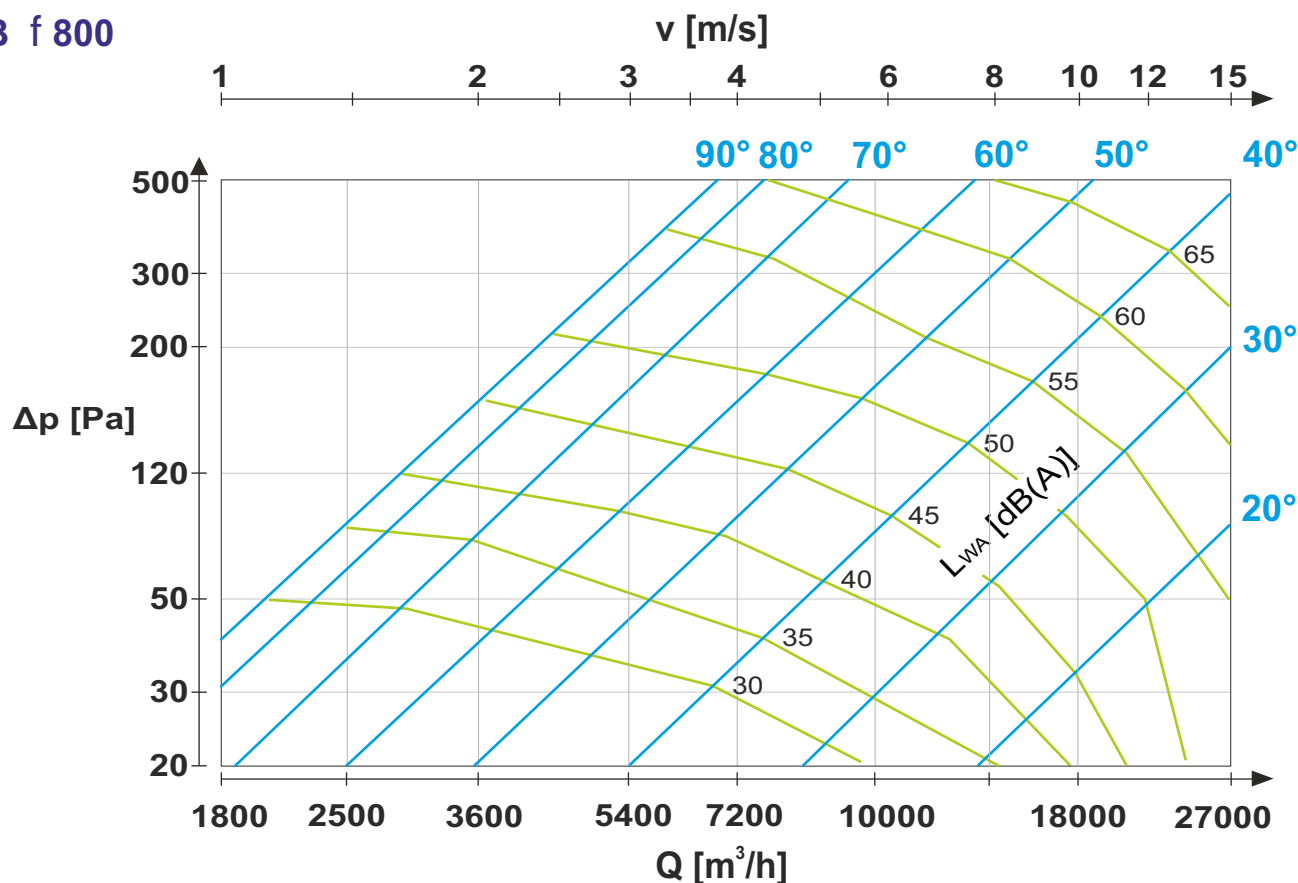
## Technical data

Pressure drop and acoustic power depending on the efficiency and the angle of the damper

## PJ-B f 630



## PJ-B f 800

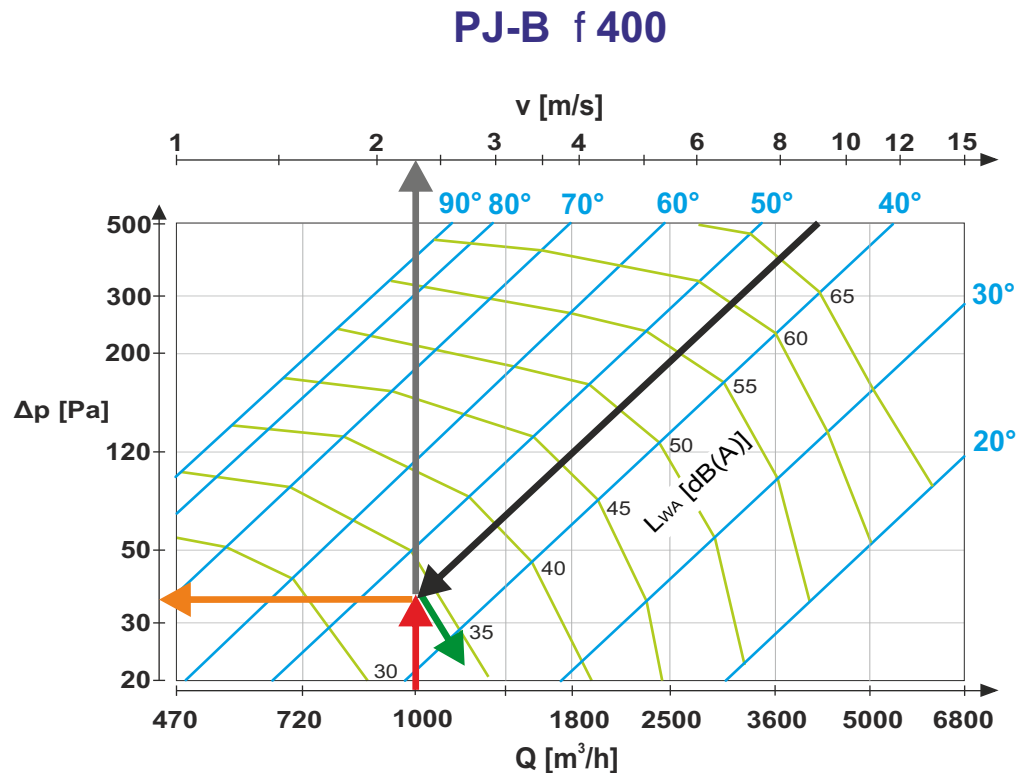


## EXAMPLE

- size of damper PJ-B fi400
- air volume flow  $Q=1000 \text{ m}^3/\text{h}$
- the angle of the damper  $45^\circ$

### Reading from the graph:

- air speed in the duct  $v=2,3 \text{ m/s}$
- pressure drop  $\Delta p=36 \text{ Pa}$
- acoustic power  $L_{WA}<35 \text{ dB}$



## The method of placing an order

Please make orders according to the following formula:

Damper with manual control

**PJ-BR / 'f d' / 'M'**

Damper with actuator control

**PJ-BE / 'f d' / 'M'**

'f d' - duct diameter in mm  
 'M' - material:  
 OC - galvanized steel\*  
 KO - stainless steel / acid proof steel

\* - If you don't give the information will be used standard parameters.