

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)

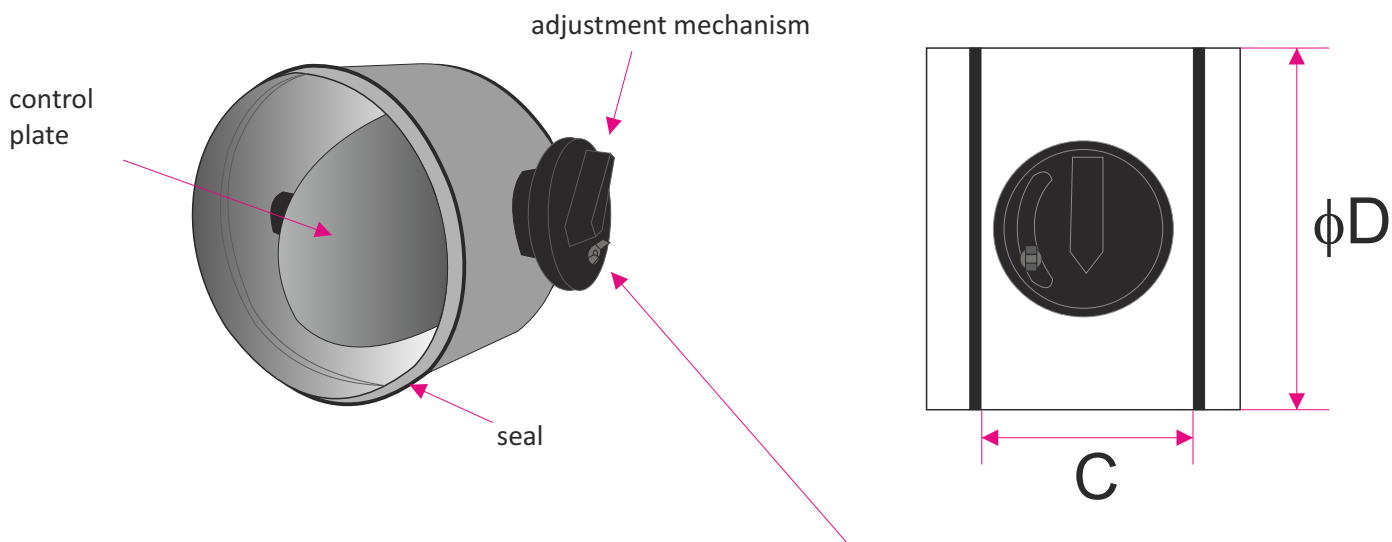
Damper has Hygienic Certificate HK/K/0522/03/2016

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).

Size

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



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.

Ducts size ϕD_n	Size ϕD	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

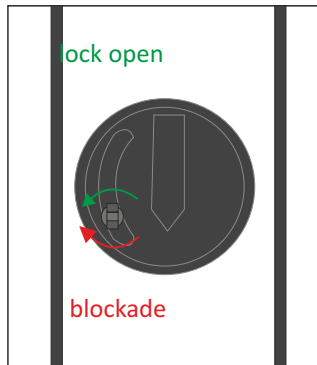
Other dimensions on request.

Control methods

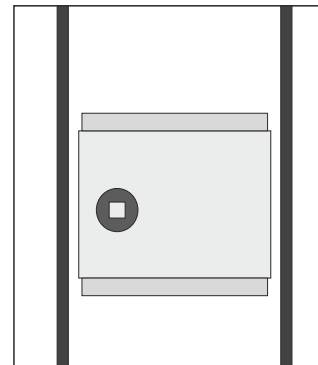
We offer two types of mechanism to control the damper:

- 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)

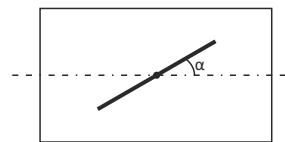
Technical data

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

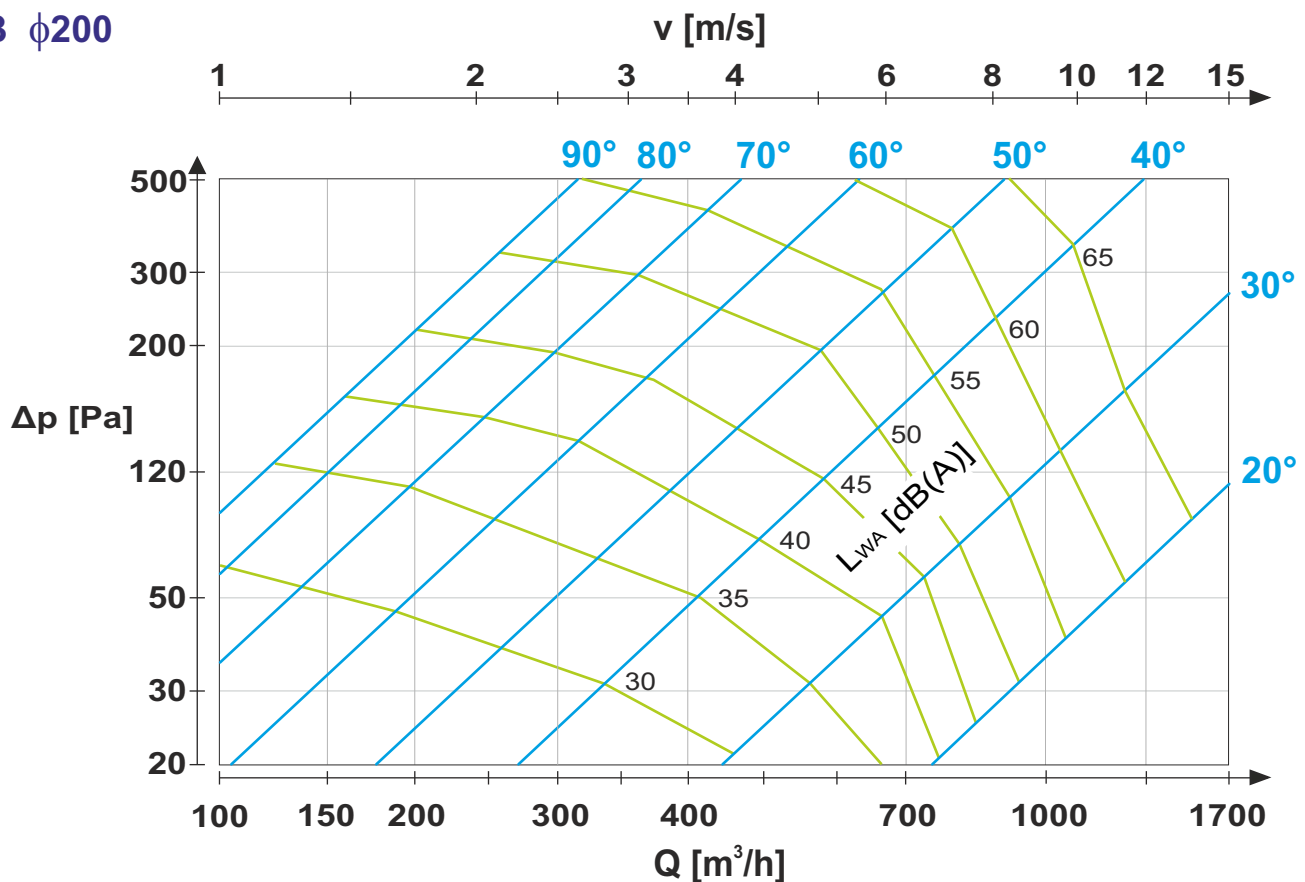
Symbol:

- Q [m³/h]- air volume flow
- L_{WA} [dB(A)]- acoustic power level
- ΔP [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



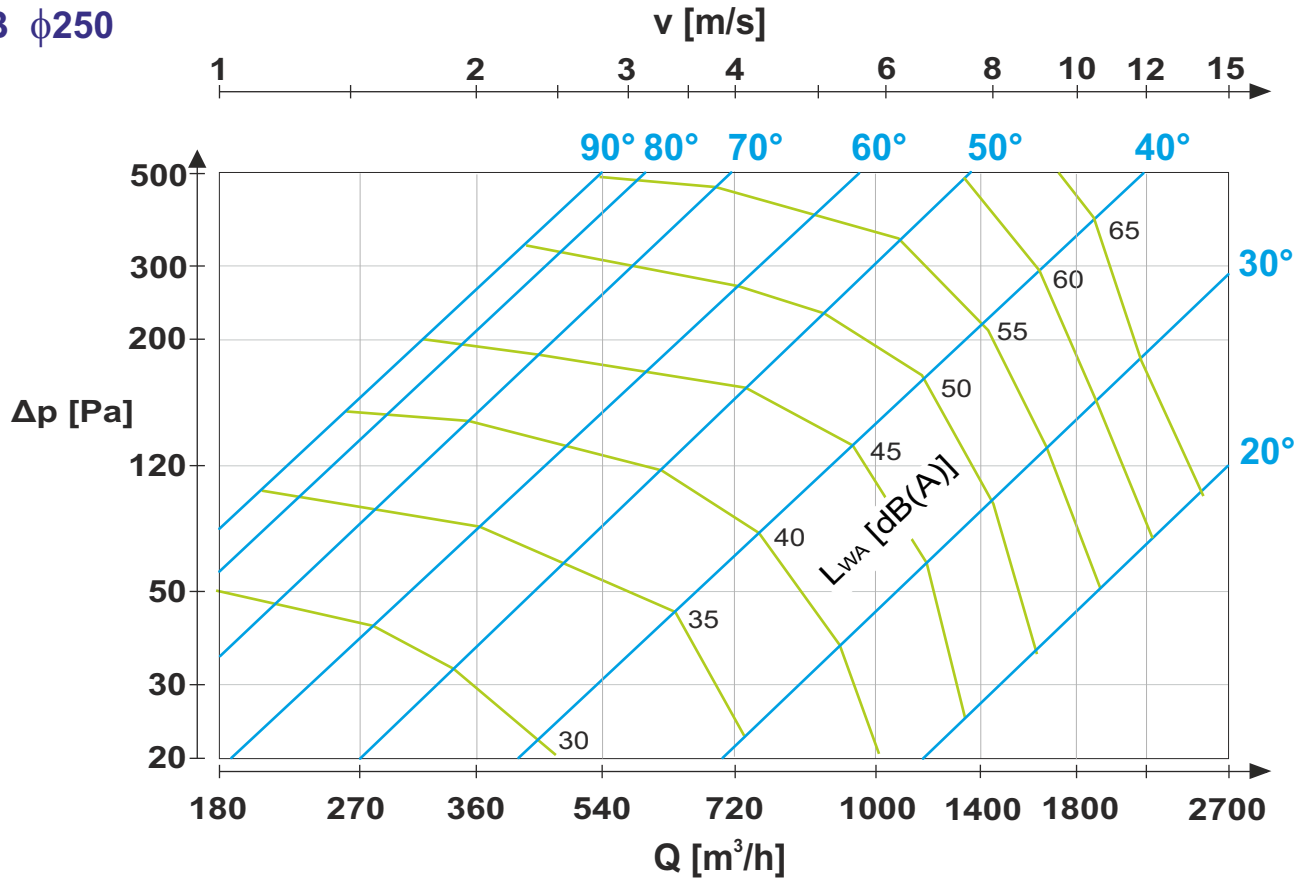
PJ-B $\phi 200$



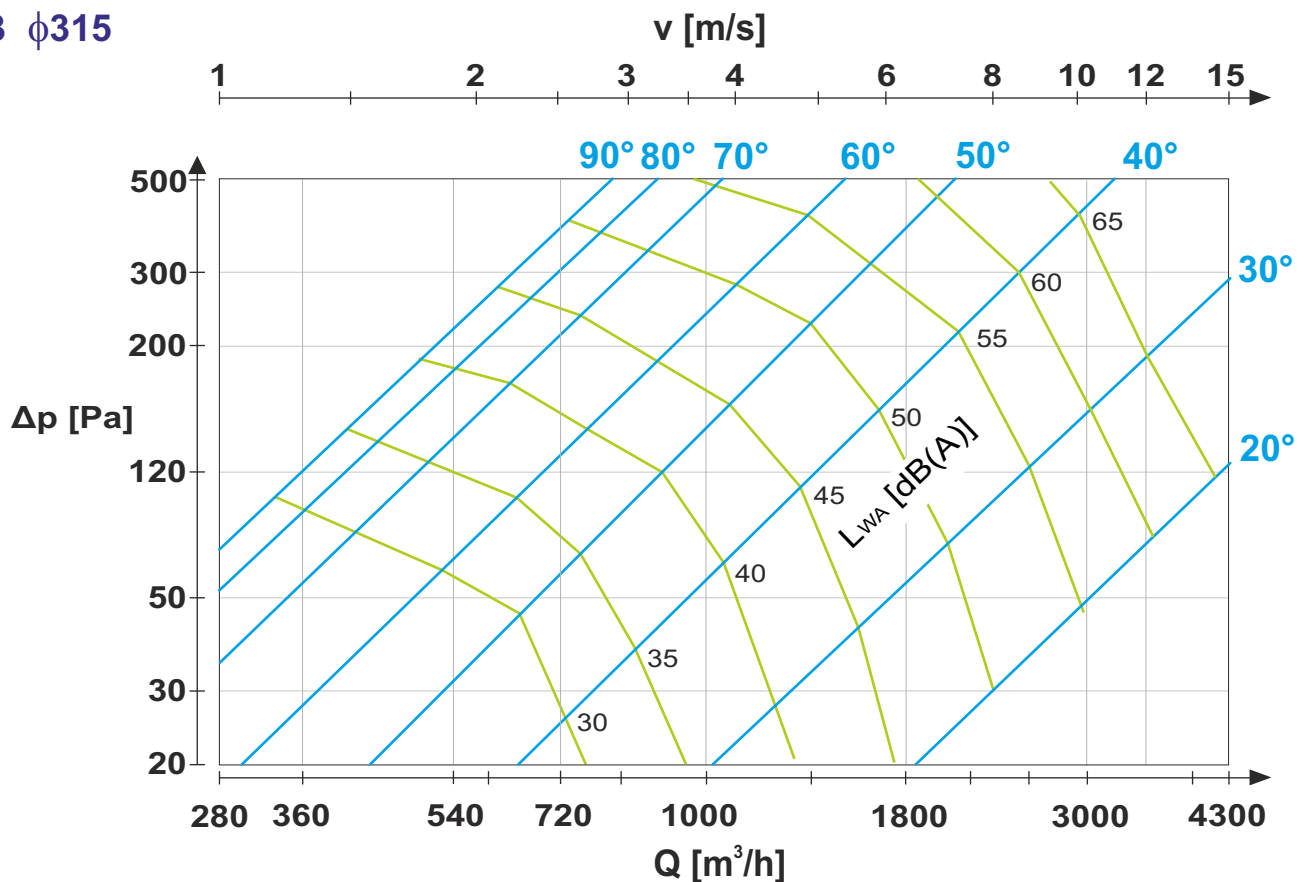
Technical data

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

PJ-B $\phi 250$



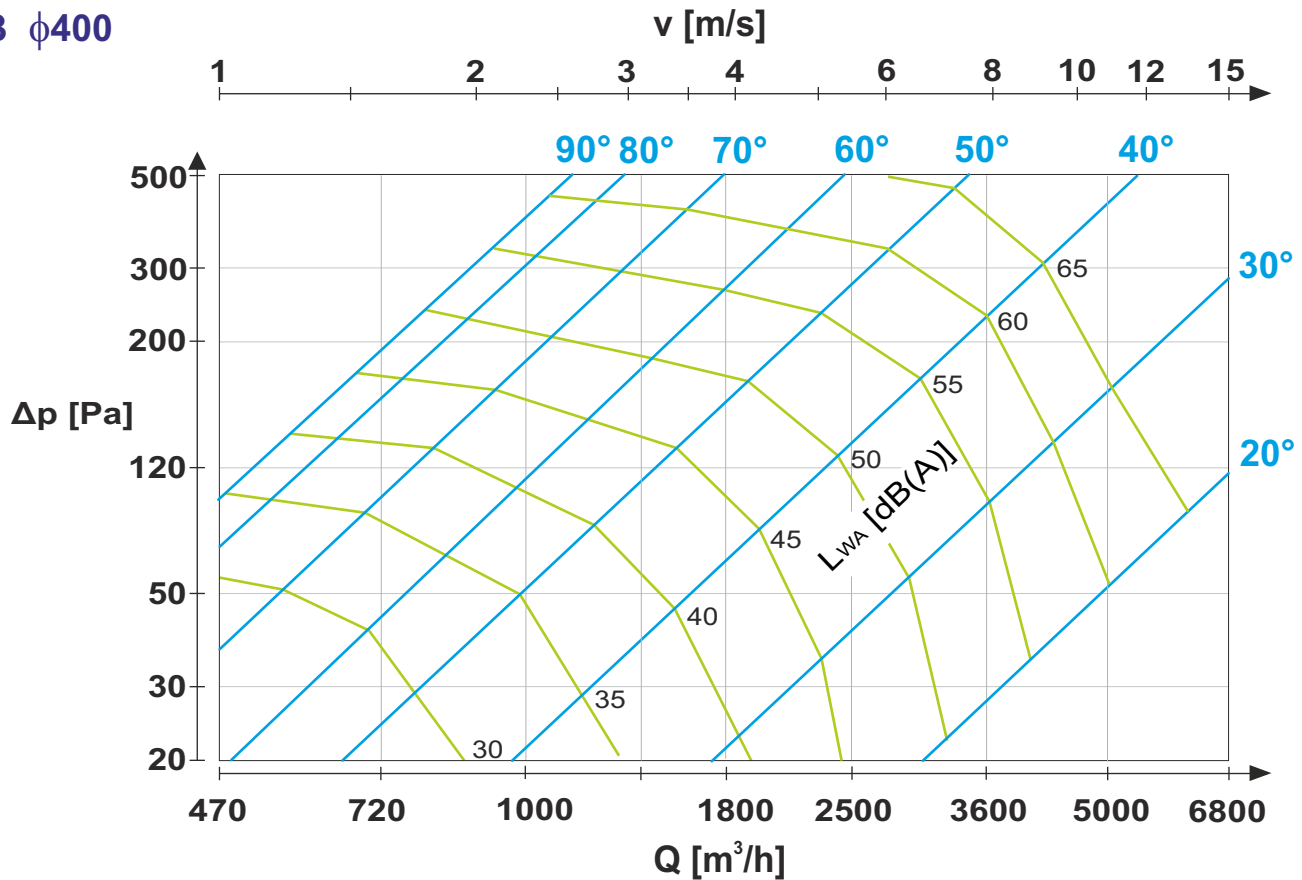
PJ-B $\phi 315$



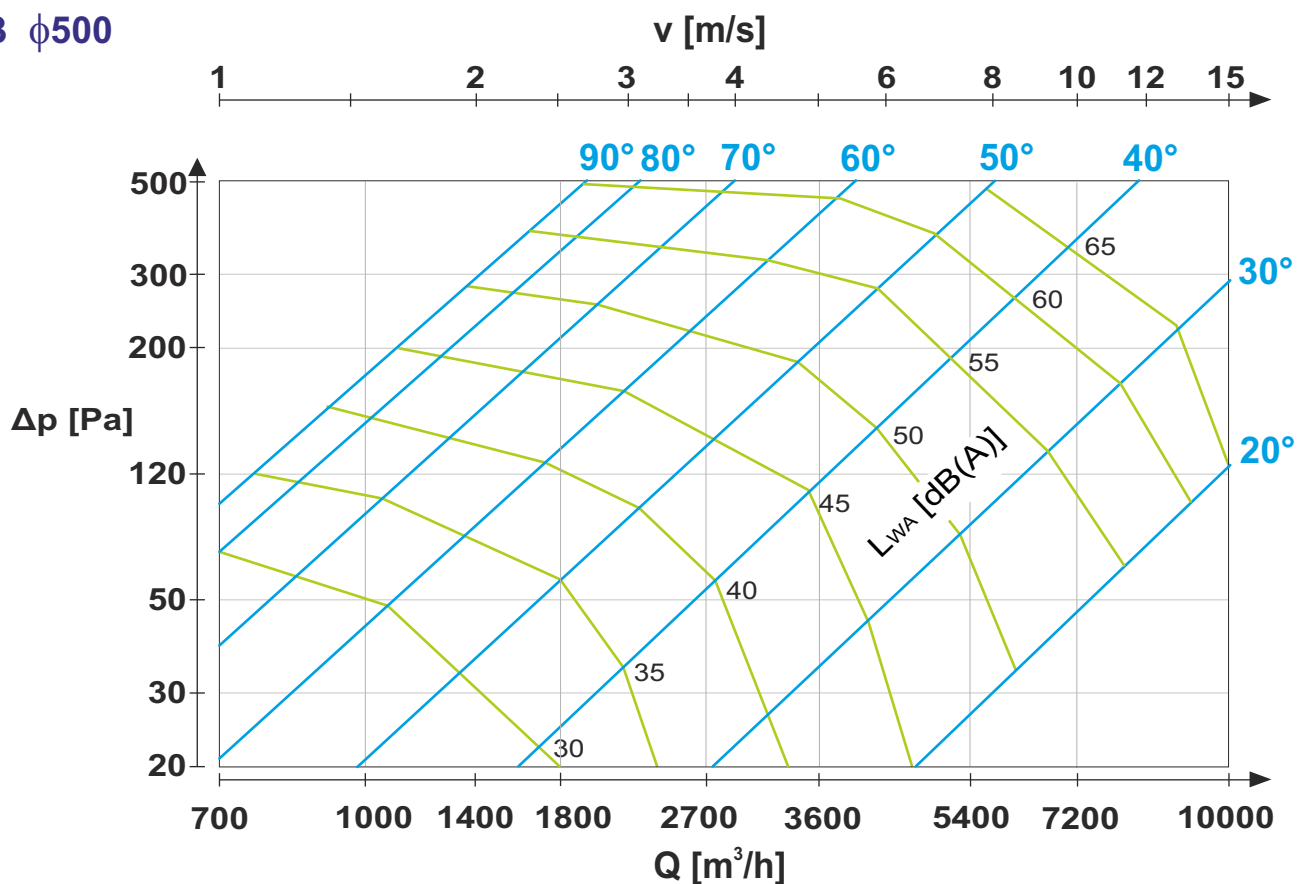
Technical data

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

PJ-B $\phi 400$



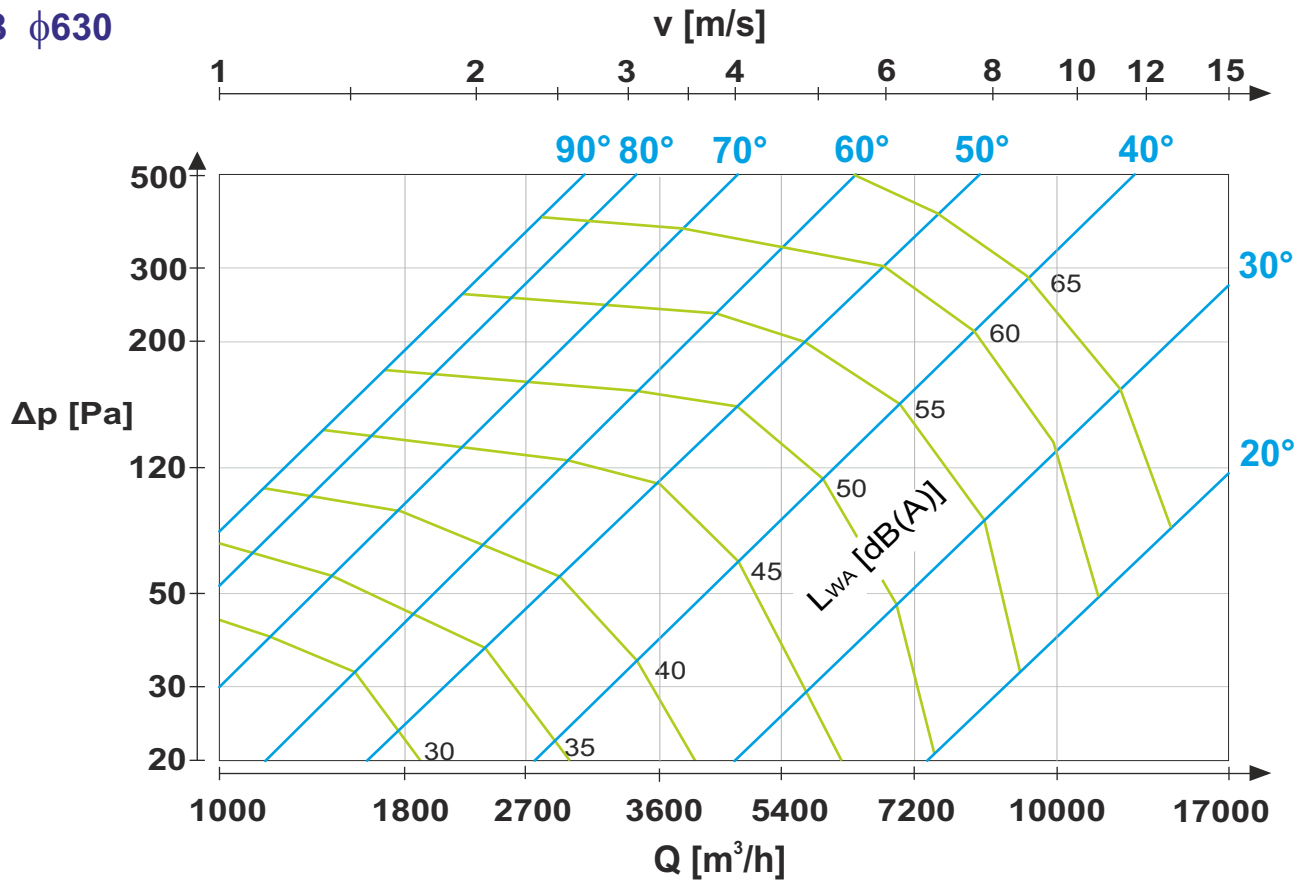
PJ-B $\phi 500$



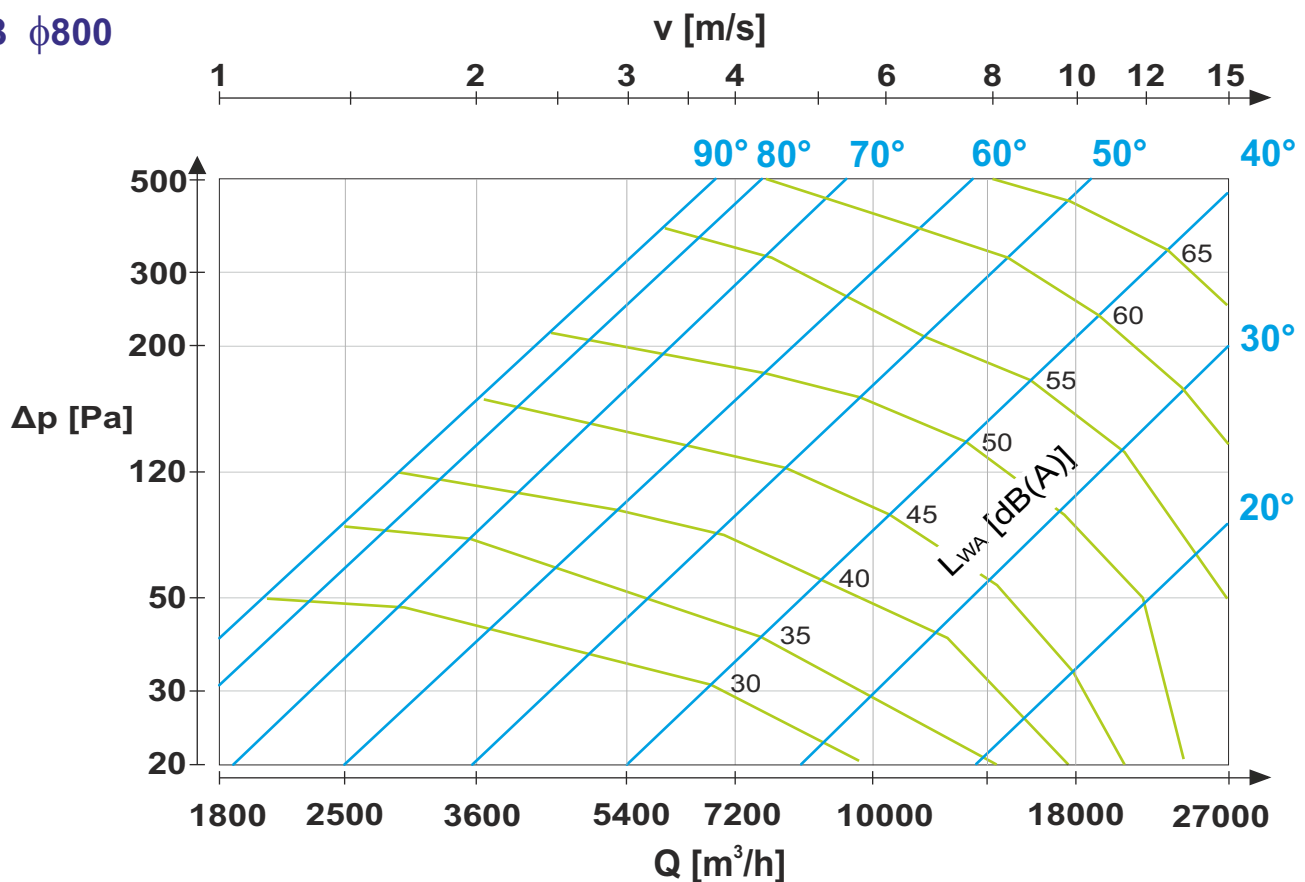
Technical data

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

PJ-B $\phi 630$



PJ-B $\phi 800$

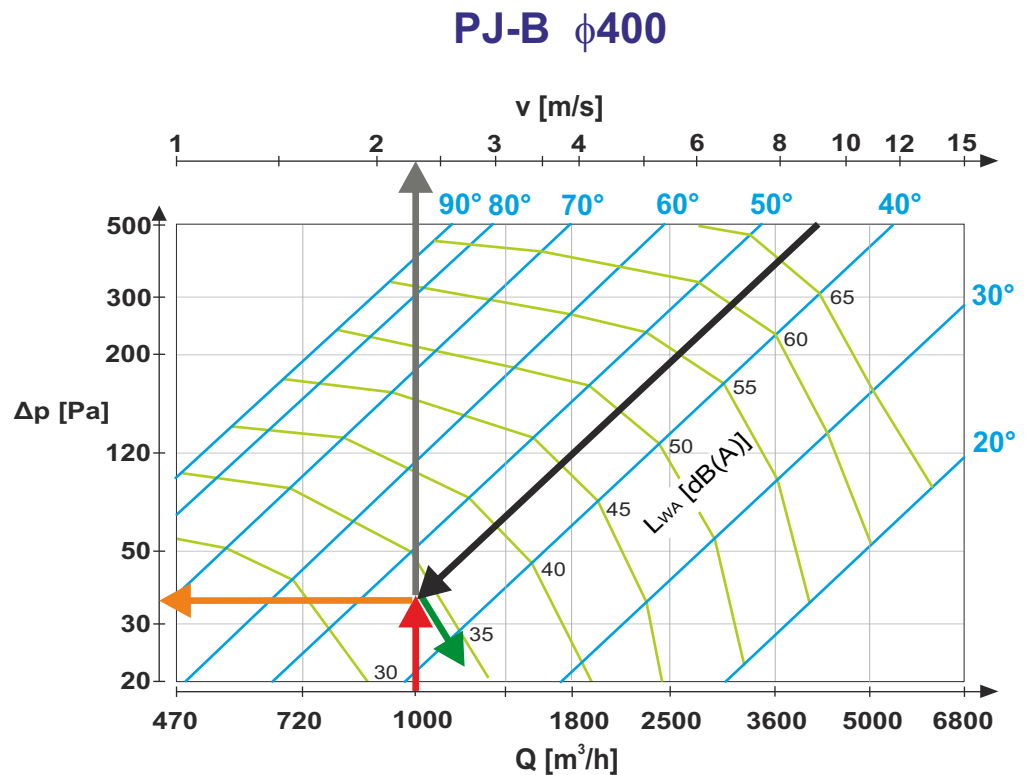


EXAMPLE

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

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 / ' ϕd ' / 'M'**

Damper with actuator control **PJ-BE / ' ϕd ' / 'M'**

- ' ϕd ' - 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.