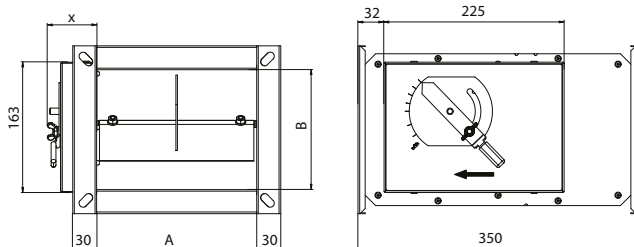


IVF Varioflow® – constant flow regulator



IVF

Technical parameters

The IVF constant flow controller is used for automatic flow control for supply or exhaust air. It ensures a constant value of air flow regardless of the pressure conditions in the pipe network.

- for supply and extract
- simple design
- good control characteristics
- simple adjustment of large-scale installations
- low noise level

Construction

The flow controller is made of galvanized steel sheet. Operating temperature -20° to $+70^{\circ}\text{C}$. The control unit is fixed to the desired flow rate. When the air flow rate increases, the pressure difference in the regulator increases and the damper closes and thus reduce the valve's flow cross-section. This will drop the flow rate back to the original value.

Notice

When designing and installing, care must be taken to ensure that the pressure in the pipe does not exceed 1000 Pa and that the minimum pressure loss corresponds to the loss shown in the diagram. Otherwise the regulator will not perform its function and may be a source of noise.

Type key for ordering

IVF-I 200x200

1 2

1 – type

IVF – standard design

IVFx2 – double execution

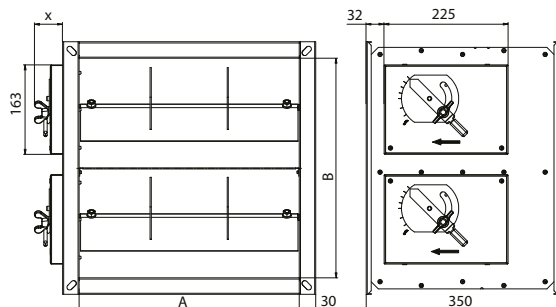
IVF-I – standard design

with 50 mm thick acoustic insulation

IVF-Ix2 – double design with acoustic

50 mm thick acoustic insulation

2 – dimensions

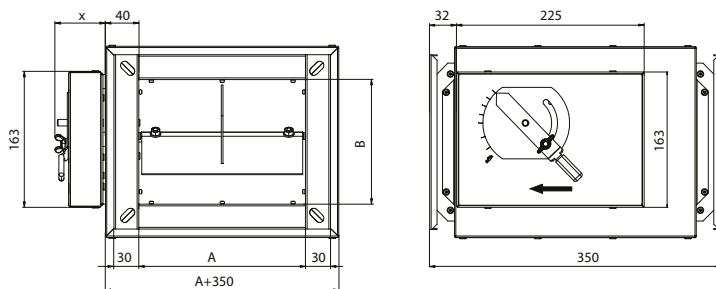


IVFx2

Type	A x B [mm]	x [mm]	Q min [m³/h]	Q max [m³/h]
IVF/IVF-I	200x100	62	250	700
IVF/IVF-I	200x150	62	400	1000
IVF/IVF-I	200x200	62	500	1300
IVF/IVF-I	300x100	62	400	1000
IVF/IVF-I	300x150	62	500	1500
IVF/IVF-I	300x200	62	600	2000
IVF/IVF-I	300x250	62	800	2500
IVF/IVF-I	300x300	81	1000	3000
IVF/IVF-I	400x200	81	900	2700
IVF/IVF-I	400x250	87	1200	3400
IVF/IVF-I	400x300	81	1500	4200
IVF/IVF-I	400x400	81*	1800	5400
IVF/IVF-I	500x200	81	1100	3400
IVF/IVF-I	500x250	87	1500	4200
IVF/IVF-I	500x300	120	1800	4800
IVF/IVF-I	500x400	81*	2200	6800
IVF/IVF-I	500x500	87*	3000	8400
IVF/IVF-I	600x200	120	1500	4000
IVF/IVF-I	600x250	120	1800	5000
IVF/IVF-I	600x300	120	2100	6000
IVF/IVF-I	600x400	120*	3000	8000
IVF/IVF-I	600x500	120*	3600	10000
IVF/IVF-I	600x600	120*	4200	12000

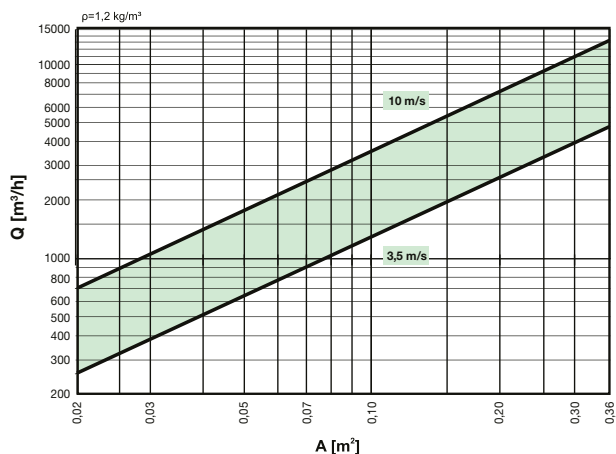
* from dimension B ≥ 400 the constant flow controller is in double IVF x 2 design

IVF Varioflow® – constant flow regulator



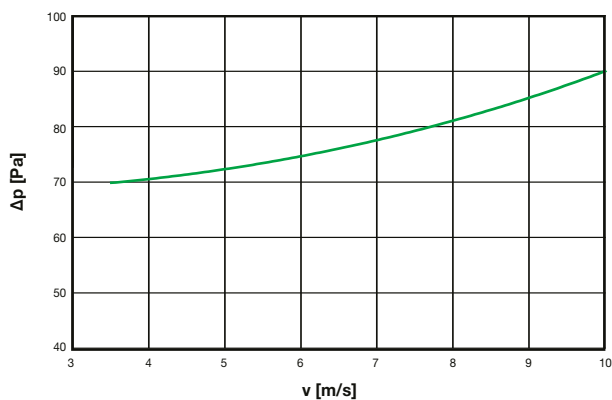
IVF-I

Characteristics



Dependence of air flow rate on velocity and flow area Setting of the required constant flow rate only possible for air velocities of 3.5–10 m/s

Minimum pressure loss



Explanatory notes:

Explanatory notes:

Q	air flow m ³ /h, l/s
v	air velocity m/s
A	flow area m ²
Δp	pressure drop (Pa)