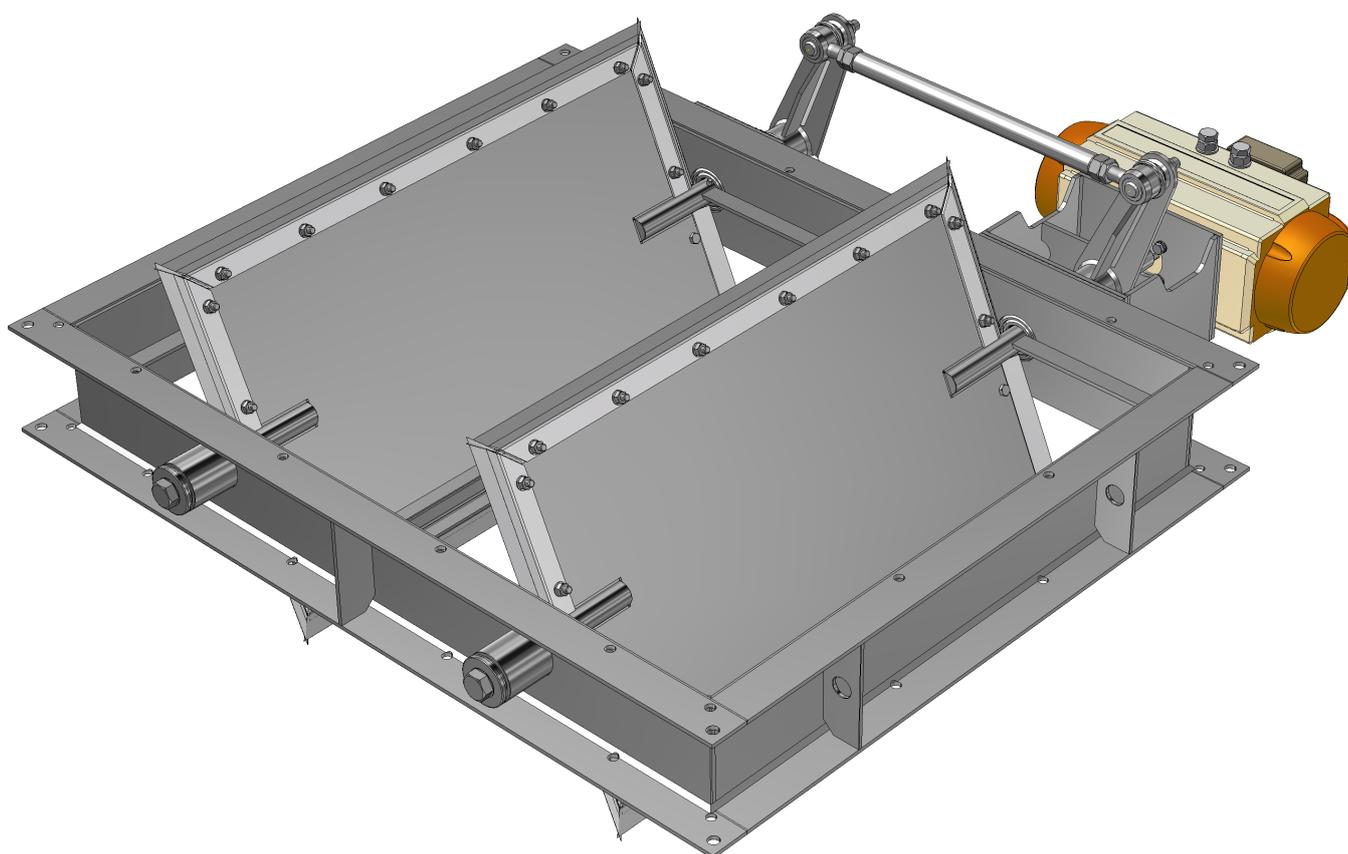


AFT-LDV max. 12000x12000mm



Damper valve for rectangular channels

Technical Description

Damper valves type AFT-LDV serve for the shut-off and/or flow regulation of media such as air and process gas.

Such valves find application in flue gas extraction installations, flue gas desulphurisation, gas utilisation SO_2 , SO_3 , NO_x , dedusting of furnaces, glass factories, metallurgical plants for copper, zinc, plumb as well as cement factories, etc.

The construction is of welded nature, discs can be joined with shafts by welding (fixed discs) or by pins (dismountable discs).

Depending on the strength calculation such valves (in particular louver types) can be executed as divided into segments with shaft supports inside the ducts. The driving torque is transmitted to the second blades segment. Taking into account the plant requirements and valve function, the valve can be delivered as quick-closing or quick-opening by using special actuating-damping devices.

Dampers of large dimensions are designed and manufactured in modules, which enable standard truck transport in segments and which are mounted on site.

Product Properties

Diameter range (WxH)

max. 12000x12000mm

Drilling pattern of the body

- flanges acc. to DIN 24193
- custom-made acc. to customer requirements
- body with welding ends
- body adopted for direct connection of fabric compensator

Design pressure

< 0,5 bar

Temperature range

-20°C to +750°C or
acc. to customer request
(max. working temperature up to 1100°C)

Mounting of actuator

- in accordance with ISO 5211
- customized acc. to customer requirements (for linear actuators and actuators with driving levers)

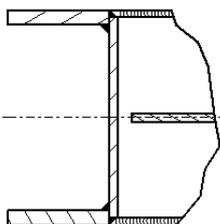
Gland packing

- graphite (other depending on medium and temperature)
- with sealing air

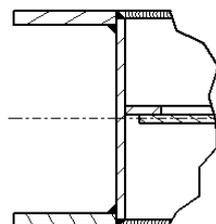
Working position of valve

- horizontal shaft
- vertical shaft
- shaft at required angle

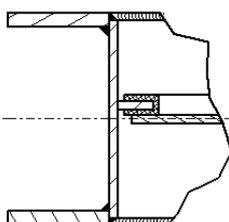
Leakage rate according to constructional solution applied:



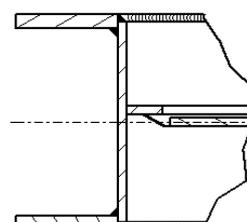
$\leq 5\%$ Kvs or
leakage rate
defined by
exact customer
specification



$\leq 0,5\%$ Kvs
(metal-metal)
or leakage rate
defined by
exact customer
specification

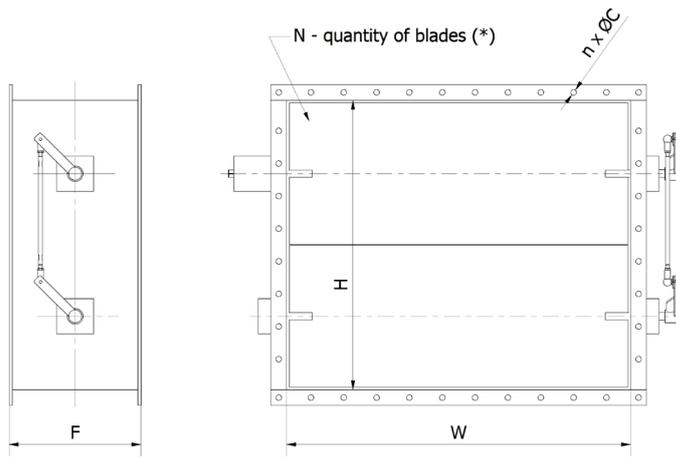


$\leq 0,1\%$ Kvs
(soft sealing)
Greater tightness
through special
profiled band
mounted on
seat ledges
or sealing profile
mounted directly
on disc edge

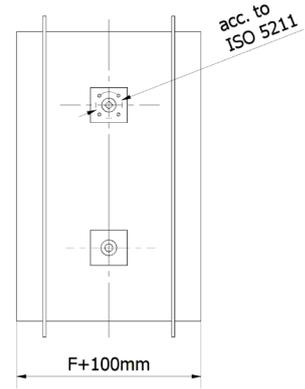


$\leq 0,1\%$ Kvs
(plate sealing)
Greater tightness
through metal
sealing by
high alloy steel;
high elasticity, high
anticorrosivity and
resistance to high
temperatures

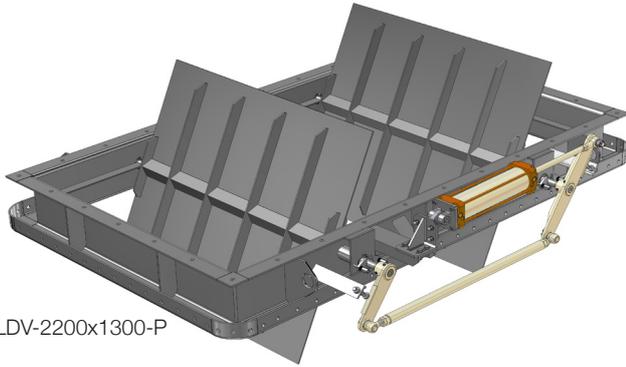
Flange version



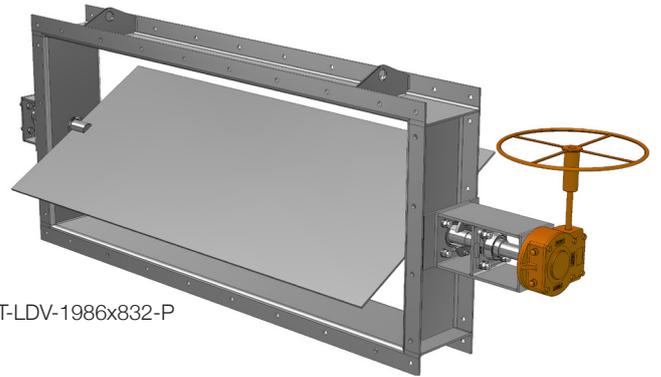
Welded version



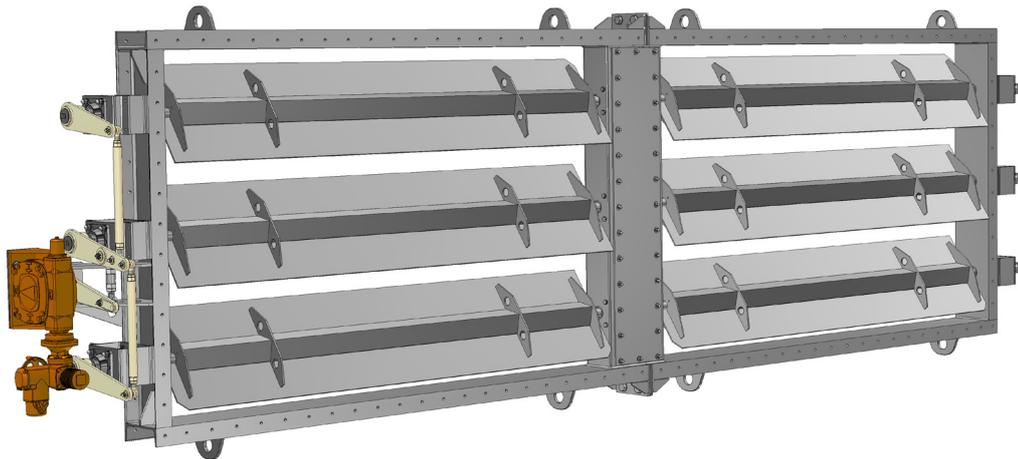
(*)The valve design is suited to individual customer requirements, taking into consideration medium working parameters (temperature, pressure, flow velocity and volume flow), mounting arrangements and any other process requirements.



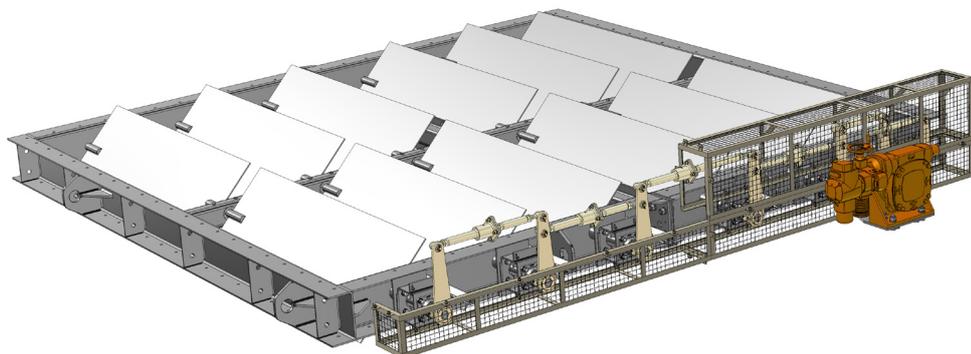
AFT-LDV-2200x1300-P



AFT-LDV-1986x832-P



AFT-LDV-6900x2000-E



AFT-LDV-4000x4500-E

Materials

	Temperature			
	up to 370°C	from 370°C up to 450°C	from 450°C up to 550°C	from 550°C up to 750°C
Body	S235JR or S355JR X5CrNi18-10 (1.4301)	P265GH X5CrNi18-10 (1.4301)	16Mo3 X15CrNiSi20-12 (1.4828)	X15CrNiSi20-12 (1.4828) 253 MA (1.4835)
Disc	S235JR or S355JR X5CrNi18-10 (1.4301)	P265GH X5CrNi18-10 (1.4301)	16Mo3 X15CrNiSi20-12 (1.4828)	X15CrNiSi20-12 (1.4828) 253 MA (1.4835)
Shafts	X20Cr13 (1.4021)	X20Cr13 (1.4021)	X15CrNiSi20-12 (1.4828)	X15CrNiSi20-12 (1.4828)
Sealing	graphite	graphite	graphite	graphite

For special high temperature executions ceramic lining inside the body is applied according to customer requirements. In special cases to achieve high corrosion resistance, the blades can be lined with high corrosion resistant and high temperature resistant alloy steel.

Actuators and Accessories

Manual worm gear

Equipment:
electromechanical limit switches
or proximity or AS-i

Pneumatic double or single acting (quarter turn or linear)

Equipment:
solenoid pilot valve, electromechanical
limit switches or proximity electropneumatic
positioner 4-20 mA, pneumatic accessories for
AS-i, PROFIBUS, HART, etc.

Emergency functions (optional)

In case of control air failure the valve:
- closes
- opens
- stays in last position
In case of supply voltage failure the valve:
- closes
- opens
- stays in last position

Electric open/close or regulating

Equipment:
- stroke and torque limit switches
- position transmitter 4-20mA
- positioner
- local control unit
- equipment for PROFIBUS, HART, etc.

Special design

- pneumatic linear actuators
- actuating systems: equipped with
electric actuators, electromagnetic
couplings, hydraulic dampers (quick
closing or quick opening valves for
emergency modes of operation)
- actuating systems with
counterweights and return springs
(quick mechanical safety actuators
in case of emergency – closing or
opening)
- chain manual actuators



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