Cut-off fire dampers

ZIPP

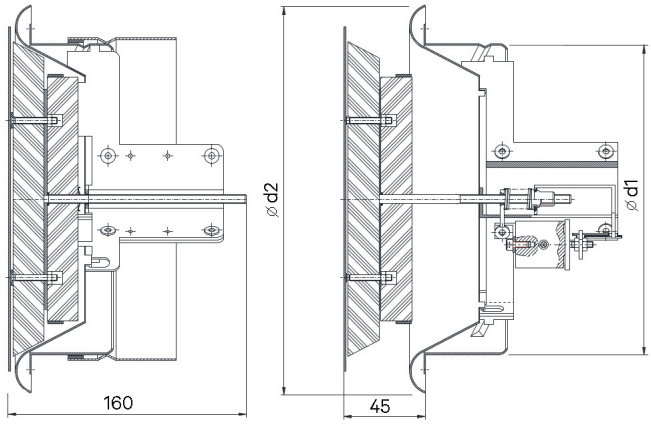
Description

Circular cut-off dampers are used to install a ventilation system in buildings along with spiral ducts at the finished ends of the installation that cross fire walls or partitions. The cut-off dampers stops the spread of fire and smoke into the duct system. Cut-off dampers of this type may be used as cut-off elements for air inlets, in which case they shall be installed without a duct system. Fire cut-off dampers may also be used to supply fresh air to rooms where smoke extraction is carried out. ZIPP type dampers can be installed in walls or ceilings, in hard or soft structures. The damper movable blade is made of heat-resistant material. Dampers are tested and classified according LST EN 1366-2 and LST EN 13501-3 with allowable negative pressures up to 300 Pa. Dampers are CE marked according LST EN 15650. This type of damper can be installed in walls or ceilings, in hard or soft structures. The ZIPP damper has a manual start mechanism and automatic actuation when the temperature rises to 74ºC. The fire resistance is EI120 (ve, ho o -> i) S, EI120 (ve, i -> o) S, EI180 (ve, o -> i) S. In addition, the fire dampers can be equipped with electromagnets and connected to the fire alarm system. Cut-off dampers are made of galvanized sheet steel with a zinc content of 275 g/m2 - corrosion class C2 / C3 (L) according to LST EN ISO 12944 standard. Dampers exterior is painted in RAL 9010 colour, which guarantees a corrosion class of C3. The dampers are manufactured and supplied with the necessary accessories for installation in the duct system. Dampers can be used at temperatures from -20 to +50 ° C. The maximum permissible absolute humidity inside and outside the air stream is 18 g / kg. Dampers are made by stamping.

Dimensions

Closed position

Opened position



Ød$_{nom}$ [mm]	Ød$_1$ [mm]	Ød$_2$ [mm]	Mass RST [kg]	M Mass RST+EK [kg]	S$_{ort}$ [m^2]	S$_{ps}$ [m^2]
100	98	139	0,9	1,0	0,0079	0,0027
125	123	164	1,5	1,6	0,0123	0,0055
160	158	207	1,7	1,8	0,0201	0,0111
200	198	254	2,7	2,8	0,0314	0,0191

Ød$_{nom}$ – duct nominal dimension [mm], S$_{ort}$ – duct cross section area [m^2], S$_{ps}$ – damper cross section area [m^2],

Ordering code

..... ZIPP200RSTEKP

Galvanized steel, painted RAL9010 -

Product

Size

RST - , RSTEKP, RSTEKI

RST – thermal trigger +74°C;
RSTEKP – thermal trigger +74°C, brake type electromagnetic breaker U=24V DC and limit switch;
RSTEKI – thermal trigger +74°C, impulse type electromagnetic breaker U=24V DC and limit switch;

Sample: ZIPP200 – made of galvanized steel and painted in RAL 9010 cut-off fire damper, diameter 200 mm.

TECHNIKA

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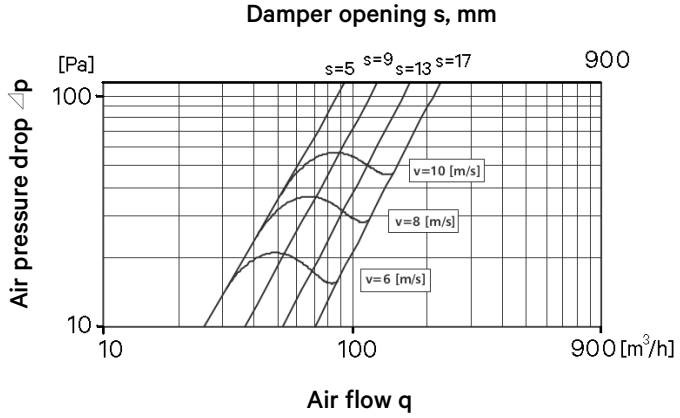
Technical data

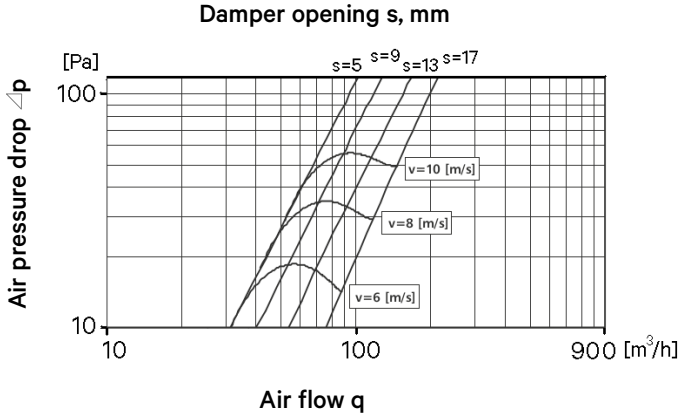
Fire resistance classification according LST EN 13501-3

			EI 120 S 300 [Pa]	EI 180 S 300 [Pa]
Solid wall	**EI 120 S – installation in solid masonry wall**	Wet installation	Ø 100 - 200	Ø 100 - 200
	Minimum thickness of the wall – 110 mm			
	Minimum density of the wall – 550 kg/m3			
	Concrete or cement lime masonry mortar or plaster filler fire resistance class A1 or polyurethane foam, class EI120.			
	ve i<-> o, EI180 – ve o -> i.			
Flexible wall	**EI 120 S – installation in flexible wall**	Wet installation	Ø 100 - 200	Ø 100 - 200
	Minimum thickness of the wall – 125 mm			
	Minimum density of mineral wool inside the wall – 80 kg/m^3			
	Plaster filler fire resistance class A1			
	ve i <-> o, EI180 – ve o -> i.			
Ceiling	**EI 120 S – installation in solid ceiling**	Wet installation	Ø 100 - 200	-
	Minimum thickness of the ceiling – 150 mm			
	Minimum density of the ceiling – 650 kg/m^3			
	Cement mortar			
	ho o → i			
Ceiling with out duct	**EI 120 S – installation in solid ceiling**	Wet installation	Ø 100 - 200	-
	Minimum thickness of the ceiling – 150 mm			
	Minimum density of the ceiling – 650 kg/m^3			
	Cement mortar			
	ho i -> o			

Cut-off fire damper Ø 100, supply



Cut-off fire damper Ø 100, extract



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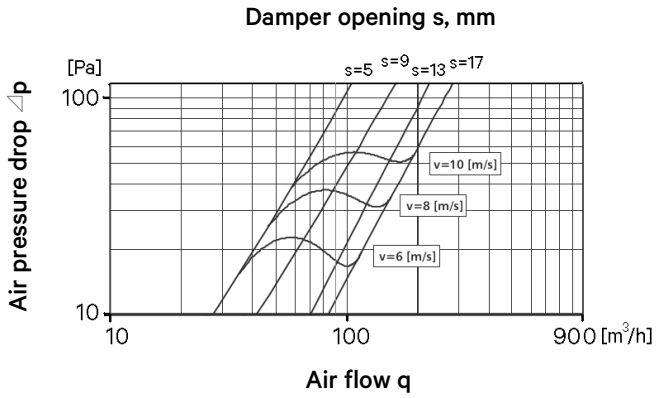
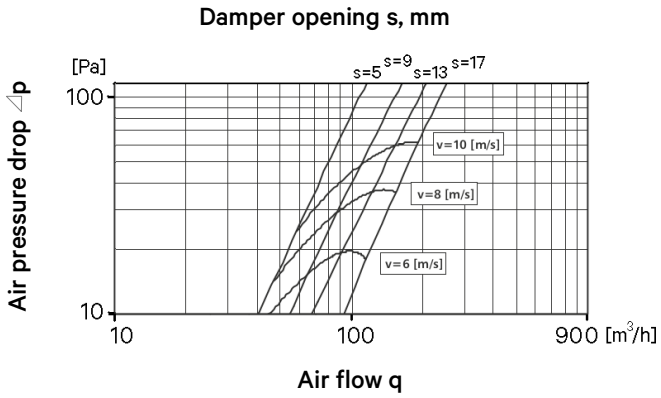
Technical data

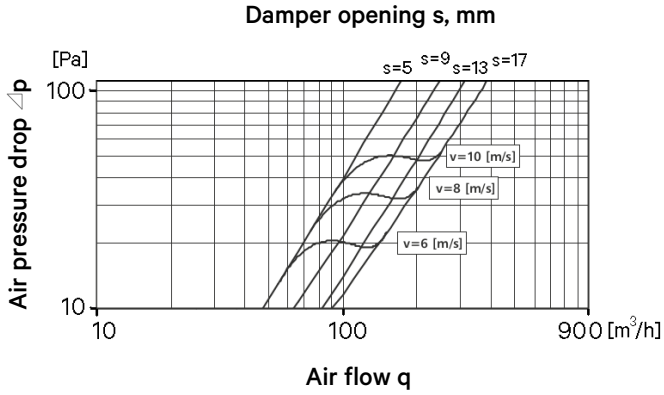
Cut-off fire damper Ø 125, supply



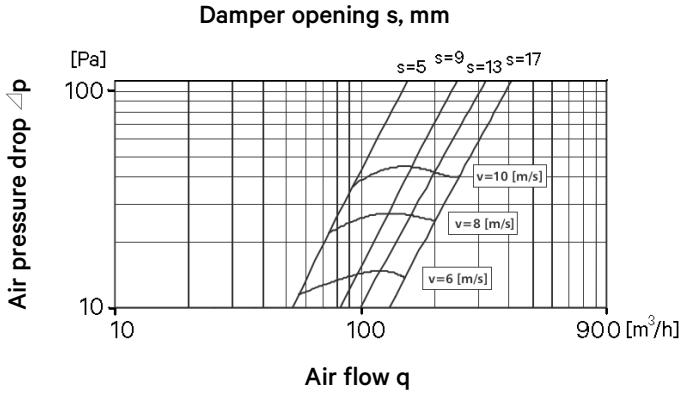
Cut-off fire damper Ø 125, extract



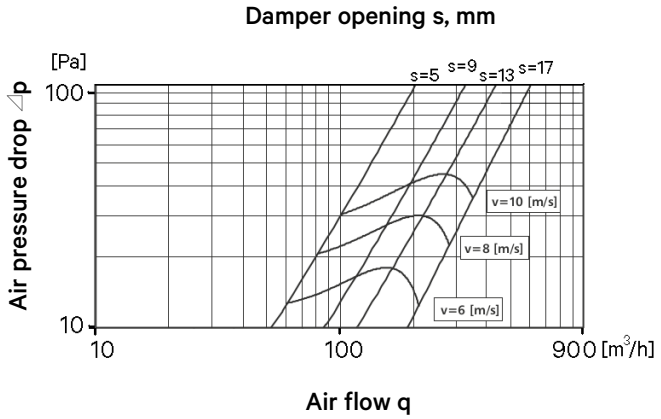
Cut-off fire damper Ø 160, supply



Cut-off fire damper Ø 160, extract



Cut-off fire damper Ø 200, supply



Cut-off fire damper Ø 200, extract