Fire damper WHS25

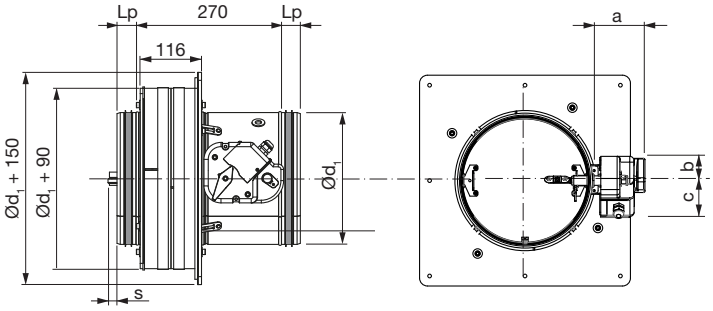
Description

Circular fire damper for air duct system that penetrate fire resistance walls or floors. With 25 mm thick closing blade made from refractory material. Casing leakage performance class C according to Standard EN1751:2014 section C.3.

The damper prevents fire and smoke from spreading through the air duct system. Tested and classified in accordance with EN 1366-2 and EN 13501-3 with 500 Pa negative pressure and CE marked in accordance with EN 15650.

Product code		
Type	WHS	Circular fire damper
Series	25	Blade thickness 25 mm
Connection	U	Safe gasket
Manual command		
Command type	B C M	Manual basic Manual compact Manual command with magnet
Position indication microswithces	S0 S2	Without position microswitches With two position microswitches (included for MR/MI versions)
Magnet	M0 MR MI	Without magnet (only for command type “B” and “C” With power supply interruption magnet through eletric board 24 V DC or 48 V DC With power supply input magnet through eletric board 24 V DC or 48 V DC
Motorized		
Motor type	VSS DSS VSB DSB TSB	Siemens motor GRA 126 (24V) Siemens motor GRA 326 (230V) Belimo motor BFL24T (24V) Belimo motor BFL230T (230V) Belimo motor BFL24T-ST (24V)
Dimension	XYZ	Nominal diameter (mm)

Dimensions



Ød$_1$ nom	WHS25 s mm	WHS25 Lp mm	WHS25U s mm	WHS25U Lp mm	m kg
100	-	35	-	38	6,6
125	-	35	-	38	7,2
140	-	35	-	38	7,6
150	-	35	-	38	7,8
160	-	35	-	38	8,2
180	-	35	-	38	8,8
200	-	35	-	38	9,6
224	4	35	1	38	10,7
250	17	35	0	57	12,0
280	32	35	10	57	13,7
300	42	35	20	57	15,0
315	50	35	28	57	16,0

s = blade exposition

Mechanism type:
WHS25C - Manual compact
WHS25B - Manual basic
WHS25M - Manual with magnet
WHS25VSB/DSB - Belimo motorized version
WHS25VSS/DSS - Siemens motorized version

Mechanism type	a mm	b mm	c mm
WHS25C	63	52	94
WHS25B	100	51	93
WHS25M	102	109	93
WHS25VSB/DSB	85	50	65
WHS25VSS/DSS	97	50	65

Ordering example

WHS25 **U** **200** **S0M0**

Type
Connection type
Dimension Ød$_1$
Control mechanism

Fire damper WHS25

Technical data

Fire resistance classification according to EN 13501-3

			EI 120 S (500 Pa)	EI 90 S (500 Pa)	EI 60 S (500 Pa)
Rigid wall	**EI 120 S – Installation within vertical rigid wall Wall min. thickness 100 mm**				
	Wall min. thickness 100 mm Wall min. density 550 kg/m³ ve (i↔o)	Dry sealing method	Ø min 100 max 315	Ø min 100 max 315	Ø min 100 max 315
Flexible wall	**EI 120 S – Installation within vertical light wall (plasterboard)**				
	Wall min. thickness 100 mm With metal frame around fire damper Without plastboard infill panel ve (i↔o) Wall rock wool density up to 80 kg/m³ (optional)	Dry sealing method	Ø min 100 max 315	Ø min 100 max 315	Ø min 100 max 315
	EI 120 S – Installation within vertical light wall (plasterboard)				
	Wall min. thickness 100 mm Without metal frame around fire damper With plastboard infill panel ve (i↔o) Wall rock wool density up to 80 kg/m³ (optional)	Dry sealing method	Ø min 100 max 315	Ø min 100 max 315	Ø min 100 max 315
	EI 90 S – Installation within vertical light wall (gypsum block wall)				
	Wall min. thickness 70 mm Wall min. density 995 kg/m³ ve (i↔o)	Dry sealing method	-	Ø min 100 max 315	Ø min 100 max 315
	EI 120 S – Installation within vertical light wall (gypsum block wall)				
	Wall min. thickness 100 mm Wall min. density 995 kg/m³ ve (i↔o)	Dry sealing method	Ø min 100 max 315	Ø min 100 max 315	Ø min 100 max 315
Floor	**EI 90 S – Installation within floor**				
	Floor min. thickness 100 mm Floor min. density 650 kg/m³ ho (i↔o)	Dry sealing method	-	Ø min 100 max 315	Ø min 100 max 315
	EI 120 S – Installation within floor				
	Floor min. thickness 150 mm Floor min. density 650 kg/m³ ho (i↔o)	Dry sealing method	Ø min 100 max 315	Ø min 100 max 315	Ø min 100 max 315

Ø min. - max. nominal diameter
ve vertical installation
ho horizontal installation
(i↔o) origin of fire is irrelevant
Pa negative pressure
E integrity
I thermal insulation
S smoke seal

We reserve the right to make changes without prior notice
2018-03-09

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Technical data

Fire Batt (Weichschott) sealings

			EI 120 S (300 Pa)	EI 90 S (300 Pa)	EI 60 S (300 Pa)
Rigid wall	**EI 120 S –Installation within rigid vertical wall with Fire Batt (Weichschott) sealing**				
	Wall min. thickness 100 mm Wall min. density 550 kg/m³ Rock wool 140 kg/m³ and endothermic varnish sealing ve (i⟷o)	Wet sealing method	Ø min 100 max 315	Ø min 100 max 315	Ø min 100 max 315
Flexible wall	**EI 120 S –Installation within vertical light wall (plasterboard) with Fire Batt (Weichschott) sealing**				
	Wall min. thickness 100 mm Wall rock wool density up to 80 kg/m³ (optional) Rock wool 140 kg/m³ and endothermic varnish sealing ve (i⟷o)	Wet sealing method	Ø min 100 max 315	Ø min 100 max 315	Ø min 100 max 315
	EI 120 S – Installation within vertical light wall (gypsum blocks) with Fire Batt (Weichschott) sealing				
	Wall min. thickness 100 mm Wall min. density 995 kg/m³ Rock wool 140 kg/m³ and endothermic varnish sealing ve (i⟷o)	Wet sealing method	Ø min 100 max 315	Ø min 100 max 315	Ø min 100 max 315
Floor	**EI 90 S – Installation within floor and Fire Batt (Weichschott) sealing**				
	Floor min. thickness 150 mm Floor min. density 650 kg/m³ Rock wool 140 kg/m³ and endothermic varnish sealing ho (i⟷o)	Wet sealing method	-	Ø min 100 max 315	Ø min 100 max 315

Installations within vertical light wall (Shaft wall)

			EI 90 S (300 Pa)	EI 60 S (300 Pa)
Flexible wall	**EI 90 S – Installation within vertical light wall (Shaft wall)**			
	Wall min. thickness 90 mm ve (i⟷o)	Dry sealing method	Ø min 100 max 315	Ø min 100 max 315

For more detailed information visit:
http://www.mp3-italia.it

The fire resistance classifications refer to the conditions obtained by rigorously applying the instructions indicated in the Technical Manual, with reference both to the construction of the wall/ceiling and the installation of the damper.