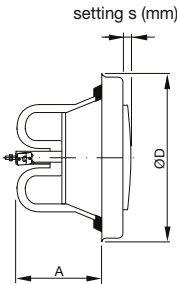


KSO-F – fire-resistant poppet drainage valves



Technical parameters

The KSO-F fire protection plate valve is made of galvanized steel plate coated with RAL 9003 white paint. On request, it can be supplied in other colour finishes. The valve has a foam gasket, a control disc allowing easy flow control and a counter-nut positioning. The control disc closes when the temperature in the immediate vicinity reaches the fusing junction melting values. The melting temperature of the standard fuse joint is +70 °C. The device is supplied with a mounting ring (KKT) made of galvanized steel plate.

The KSO-F is intended for use as a firestop in ventilation systems. The resistance of the KSO-F has been tested in accordance with EN 13501-3 by an approved testing laboratory and the fire resistance classification of the closure fitted in the wall construction is E120.

- for horizontal pipes
- no inspection hole is required
- easily replaceable spring lock

Installation

The valve is supplied complete with spring lock, it is fixed by "screwing" into the thread of the mounting ring.

Measurement and control

The air flow is controlled by turning the control cone to change the "s" (mm) setting. The device is supplied with a document with the measured data.

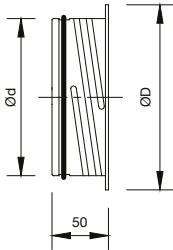
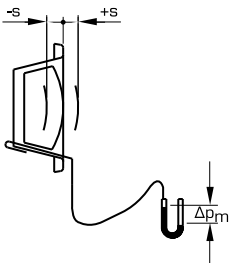
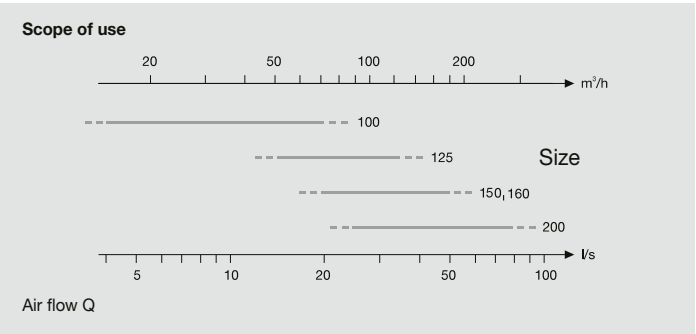
Example of order execution

KSO-F 125

Type (including KKT ring) _____
Size _____

Type	Ø D	A	weight [kg]
KSO-F 100	134	74	0,30
KSO-F 125	160	85	0,38
KSO-F 150, 160	191	89	0,50
KSO-F 200	241	107	0,72

Additional illustration

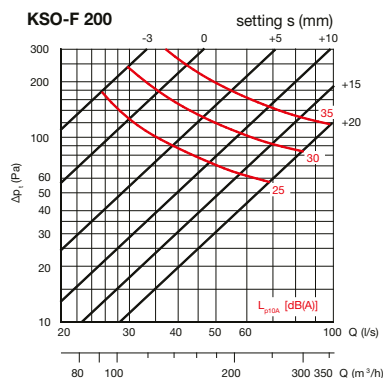
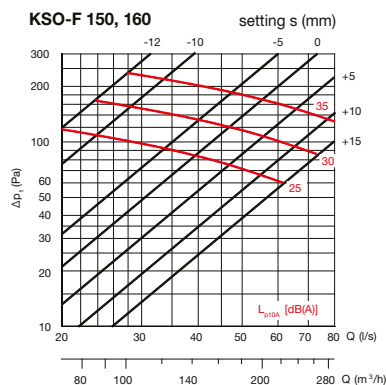
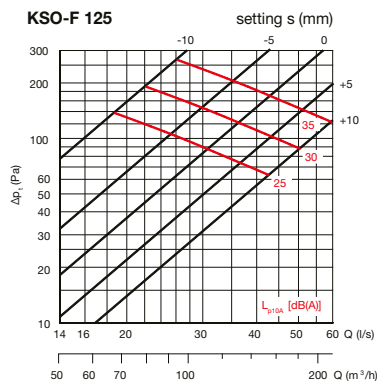
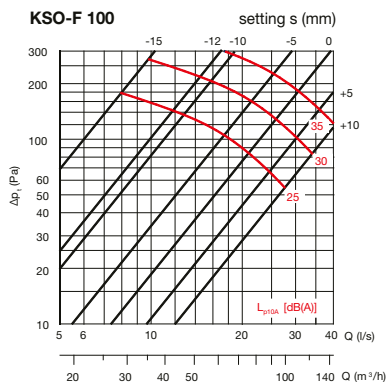


KKT

Type	Ø d	Ø D	weight [kg]
KKT 100	99	122	0,075
KKT 125	124	148	0,102
KKT 150	149	175	0,123
KKT 160	159	184	0,131
KKT 200	199	225	0,165

KSO-F – fire-resistant poppet drainage valves

Characteristics



Explanatory notes

q_v	flow	$[l/s], [m^3/h]$
Δp_t	total pressure drop	$[Pa]$
L_{p10A}	sound pressure level at room attenuation 4dB (10m ² sabin)	$[dB(A)]$
L_{Woct}	sound power level at room attenuation	$[dB]$
ΔL	noise attenuation	$[dB]$
K_{oct}	correction	$[dB]$

Sound power levels L_w

Size	Correction K_{oct} (dB) [Hz]						
	125	250	500	1000	2000	4000	8000
100	2	-1	-1	1	-4	-8	-22
125	-3	-3	-3	-2	0	-7	-24
150, 160	0	-3	-1	-2	-7	-11	-25
200	1	-3	-4	3	-8	-12	-29
toler. ±	3	2	2	2	2	2	3

Sound power levels in octave bands are obtained by adding the K_{oct} corrections given in the table to the total sound pressure level L_{p10A} , dB(A) according to the following formula:

$$L_{Woct} = L_{p10A} + K_{oct}$$

Correction K_{oct} is the average value in the frequency range (Hz).

Noise attenuation ΔL

Size	Settings [mm]	Noise attenuation ΔL (dB) [Hz]							
		63	125	250	500	1000	2000	4000	8000
100	-10	22	19	16	16	16	18	9	9
	0	22	18	13	12	12	13	6	7
	10	22	17	12	9	8	11	4	6
125	-10	21	18	15	14	15	14	10	7
	0	19	17	12	11	11	10	6	5
	10	20	16	10	9	9	8	5	5
150, 160	-10	19	16	14	14	14	16	8	8
	0	18	14	11	11	11	13	5	7
	10	18	14	10	9	9	11	4	6
200	-10	15	15	14	14	16	15	10	9
	0	14	12	11	10	12	12	7	7
	10	13	11	8	8	9	10	6	6
toler.±		6	3	2	2	2	2	2	3

The average noise attenuation ΔL from the duct to the room including the reflection at the end of the connecting duct in the ceiling installation is given in the table above.