SITZ

Airtight shut-off damper with interlocking blades

Diffusion
Components for perfect air distribution in HVAC systems

Product SITZ

Construction

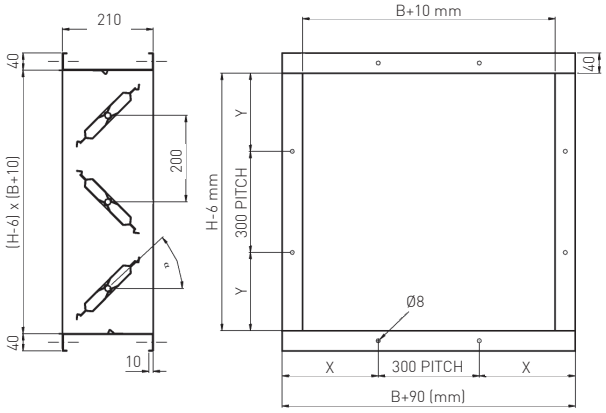
Galvanised steel sheet frame, 1.5 mm thick
Interlocking blades in galvanized steel sheet, thickness 0.8+0.8 mm, with special profile for gasket housing
Blade pitch 200 mm
External levers for damper control
Nylon bushings resistant up to 70°C
Control pins ø12 mm galvanised
Side sealing with aluminium blades

SPECIFICATION
Airtight shut-off damper, pitch 200 mm.
Self-generated noise tests according to UNI EN 25135
and ISO 23741.
Leakage test according to EN 1751 DIN 1946/4

MOUNTING
By screws along the flanges

ACCESSORIES
Manual control CM-20
Actuator

DRAWINGS



SITZ

CM-20
Manual control

ACTUATOR

DIMENSIONS

B mm	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
No. of Holes Ø 8	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7
X mm	140	190	90	140	190	90	140	190	90	140	190	90	140	190	90	140	190	90	140

H mm	410	610	810	1010	1210	1410	1610	1810	2010
No. of Holes Ø 8	1	1	2	3	3	4	5	5	6
Y mm	205	305	255	205	305	255	205	305	255

SITZ

Airtight shut-off damper with hollow blades

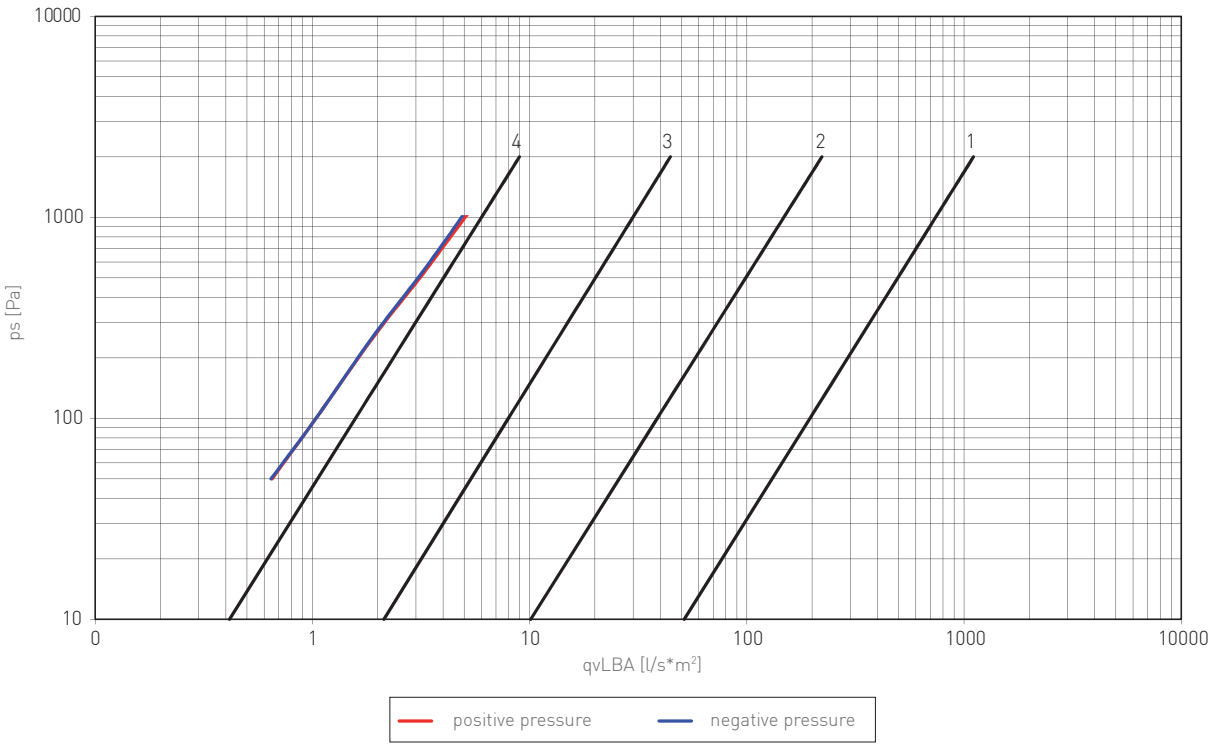
PERFORMANCE

SITZ	Pressure drop and generated noise					
	α 0°		α 30°		α 60°	
V (m/s)	ΔP_t Pa	LwA dB(A)	ΔP_t Pa	LwA dB(A)	ΔP_t Pa	LwA dB(A)
1	< 5	< 20	6	32	130	49
2	< 5	23	23	49	520	69
3	< 5	34	52	58	1185	76
4	< 5	42	94	66	1350	83
5	< 5	48	145	71	> 1500*	87
6	< 5	53	215	75	> 1500*	92
7	7	57	290	79	> 1500*	95
8	9	61	380	83	> 1500*	98
9	11	64	480	86	> 1500*	> 100
10	13	68	580	88	> 1500*	> 100
11	16	71	700	91	> 1500*	> 100
12	19	73	830	93	> 1500*	> 100
13	22	75	975	95	> 1500*	> 100
14	25	77	1130	97	> 1500*	> 100
15	27	79	1300	99	> 1500*	> 100

SELECTION TABLE

A_k	v [m/s]		Q [m³/h]	
m²	min	max	min	max
0,0420	3	6	450	910
0,0840	3	6	910	1810
0,1260	3	6	1360	2720
0,1680	3	6	1810	3630
0,2100	3	6	2270	4540
0,2520	3	6	2720	5440
0,2940	3	6	3180	6350
0,1640	3	6	1770	3540
0,2460	3	6	2660	5310
0,3280	3	6	3540	7080
0,4100	3	6	4430	8860
0,4920	3	6	5310	10630
0,5740	3	6	6200	12400
0,3660	3	6	3950	7910
0,4880	3	6	5270	10540
0,6100	3	6	6590	13180
0,7320	3	6	7910	15810
0,8540	3	6	9220	18450
0,6480	3	6	7000	14000
0,8100	3	6	8750	17500
0,9720	3	6	10500	21000
1,1340	3	6	12250	24490
1,0100	3	6	10910	21820
1,2120	3	6	13090	26180
1,4140	3	6	15270	30540
1,4520	3	6	15680	31360
1,6940	3	6	18300	36590
1,9740	3	6	21320	42640

BLADE AIR TIGHTNESS



FRAME AIR TIGHTNESS