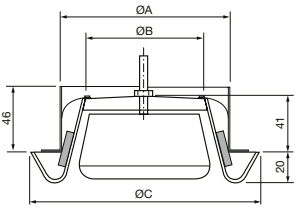
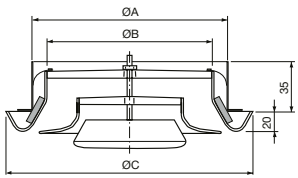
VEF – plastic plate drain valves



VEF 80–160



VEF 200

Technical parameters

Plastic poppet valves for air discharge have an easily adjustable center element for flow regulation. The poppet valve is provided with a sealing tape for sealing in the mounting ring. Plastic valves can be cleaned with weak solutions of non-aggressive detergents. VEF valves are made of polypropylene, color white (RAL9003). They resist some diluted chemicals. The highly advantageous aerodynamic shape reduces valve noise and significantly reduces the risk of crosstalk. Mounting frames are made of galvanized sheet metal.

- for air extraction suitable for homes, offices, etc.
- good adjustment parameters
- low noise level
- quick and easy installation
- easy air flow measurement
- low pressure drop
- ambient temperature up to 100 ˚C
- resistance to some chemicals

Type	Ø A	Ø B	Ø C	weight [kg]
VEF 80	80	45	120	0.09
VEF 100	100	70	142	0.12
VEF 125	125	86	158	0.16
VEF 160	160	125	200	0.26
VEF 200	200	170	243	0.34

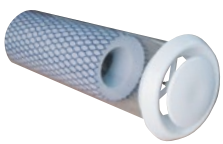
Installation

The valves are inserted by flat springs into the VLZ brickwork, which allows the valve to be fixed into the ceiling construction or into the wall. The plate valve is inserted from one side of the brickwork, a flexible flex-handle is inserted from the other side and the joint is fixed with steel or nylon clamping tape. The wall can also be fixed in a circular pipe.

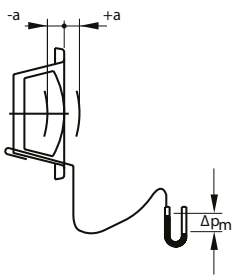
Measurement and control

The air flow is regulated by turning the centre disc, which changes the opening of the valve "a" (mm). The air flow measurement is performed as a pressure differential measurement using a measuring tube. See diagrams for further details. The dependence of flow and pressure drop on valve opening 'a' is expressed by the relation:

$q = k\sqrt{\Delta p_m}$ **(l/s), (Pa)**



SGD – telephone silencer

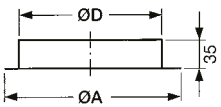


Type	a [mm]	-7.5	-5	0	+5	+10	+15
VEF 80	k	0.53	0.73	0.95	1.10	1.25	1.43
VEF 100	k	0.83	1.09	1.43	2.00	2.28	2.69
VEF 125	k	0.85	1.11	1.63	2.15	2.41	3.45
Type	**a [mm]**	**-2.50**	**0**	**+5**	**+10**	**+15**	**+20**
VEF 160	k	2.02	2.63	3.93	4.53	6.08	7.56
VEF 200	k	–	3.47	4.61	5.97	6.60	7.66

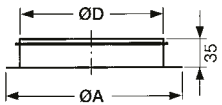
Type	A	D	weight [kg]	mounting hole
VLZ 80	107	80	0.07	Ø 90
VLZ 100	127	100	0.09	Ø 110
VLZ 125	152	125	0.11	Ø 135
VLZ 150	177	150	0.13	Ø 160
VLZ 160*	187	160	0.15	Ø 170
VLZ 200	227	200	0.18	Ø 210

* for VEF 160 only VLZ 01

VLZ 01 (without gasket)



VLZ 02 (single-edged seal)

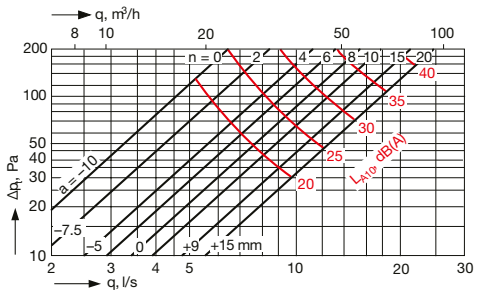


mounting frame

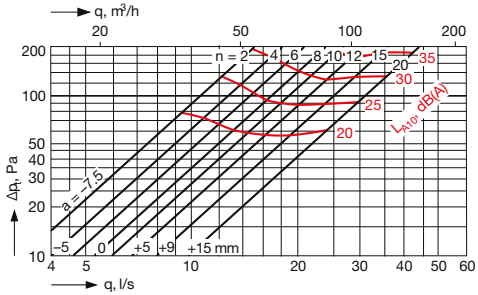
VEF – plastic plate drain valves

Characteristics

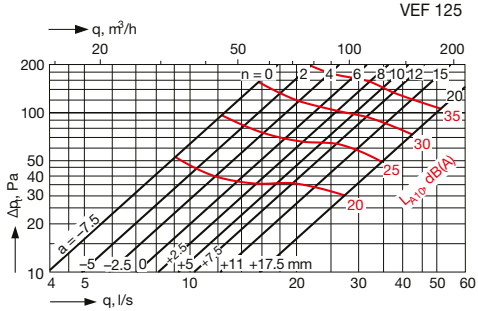
VEF 80



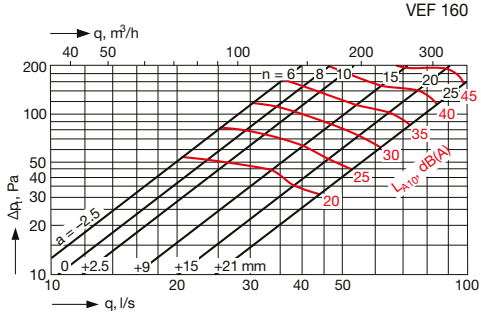
VEF 100



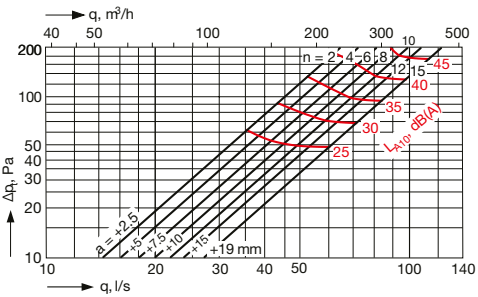
VEF 125

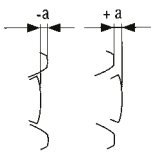


VEF 160



VEF 200





n = number of disk rotations
a = Opening the valve (mm)

Sound power levels

	Correction (dB)							
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
VEF 80	-8	-7	-5	-4	-1	-2	-5	-12
VEF 100	-7	-6	-6	-4	-2	-1	-4	-11
VEF 125	-6	-5	-3	-4	-2	-1	-4	-13
VEF 160	1	2	1	-1	1	-4	-9	-18
VEF 200	1	2	4	0	-1	-4	-10	-18

Noise attenuation

	(dB)							
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
VEF 80	23	23	16	15	13	10	6	9
VEF 100	22	21	15	13	11	10	6	9
VEF 125	21	19	13	11	10	10	7	9
VEF 160	20	16	12	10	9	10	8	8
VEF 200	17	12	7	5	4	4	7	5