



DVLF EXHAUST AIR VALVE

AIR MANAGEMENT SYSTEMS

PRODUCT PROPERTIES

Exhaust air terminal device **DVLF** is a circular disc valve with a valve cone of aerodynamic design. This valve possesses excellent characteristics with regard to noise level, pressure drop and air flow capacity. The design of the sound absorbent reduces the risk of cross-talk noise. The device, which is designed for wall-mounting or, alternatively, for ceiling-mounting, is available in five sizes to suit duct connections with a diameter between 80 mm and 200 mm

The design of the valve in conjunction with a Moltopren packing prevents dirtying of the ceiling and walls.

Material and surface finish

The device is made of polypropylene plastic which is recycleable and withstands temperatures up to 100°C. The materials used in the device are also resistant to most chemicals in small concentrations.

The device is supplied in white RAL9002 as standard.

Care

The device can be cleaned with a cloth moistened with a mild synthetic cleaning or washing agent.

Adjustment

The cone is screwed out by the number of revolutions necessary to provide the orifice opening in mm corresponding to the pressure drop and the desired air flow according to the graph. The pressure drop is checked by introducing a suitable measurement probe into the front behind the valve cone.

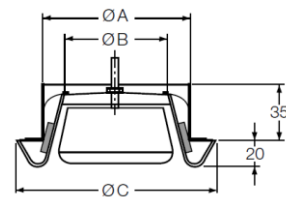
$$q = k \sqrt{\Delta p_m}$$

(l/s) (Pa)

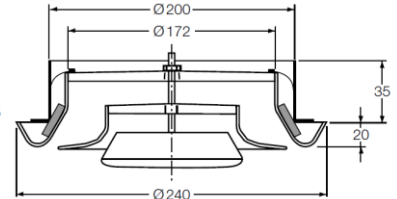
SIZE	a, mm	-7.5	-5	0	+5	+10	+15
080	k-factor	0.53	0.73	0.95	1.10	1.25	1.43
100		0.83	1.09	1.46	2.00	2.28	2.69
125		0.85	1.11	1.63	2.15	2.41	3.45
SIZE	a, mm	-2.5	0	+5	+10	+15	+20
150	k-factor	2.02	2.63	3.93	4.53	6.08	7.56
160		2.02	2.63	3.93	4.53	6.08	7.56
200		-	3.47	4.61	5.97	6.60	7.66

DIMENSIONS in mm

DVLF 080-160

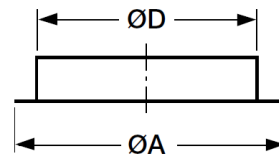


DVLF 200

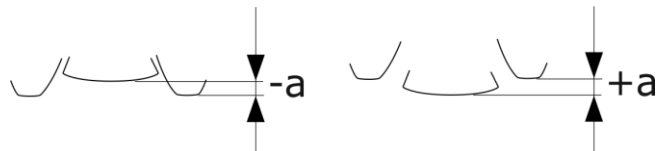


SIZE	A	B	C	W (kg)
DVLF080	80	45	120	0.09
DVLF100	100	70	145	0.12
DVLF125	125	95	160	0.15
DVLF150	150	115	190	0.20
DVLF160	160	115	195	0.20
DVLF200	200	172	240	0.34

DVLZ Galvanized steel sheet mounting frames, are available as an accessory.



SIZE	A	D	W (kg)	Hole size
DVLZ080	107	80	0.07	Ø 90
DVLZ100	127	100	0.09	Ø 110
DVLZ125	152	125	0.11	Ø 135
DVLZ150	177	150	0.13	Ø 160
DVLZ160	187	160	0.15	Ø 170
DVLZ200	227	200	0.18	Ø 210



LIABILITY:

The information contained in this brochure was current on the publication date. DEC INTERNATIONAL reserves the right to make changes in details at any time without prior notice. In order to avoid misunderstandings, any interested party is advised to contact DEC INTERNATIONAL checking for any changes in materials and/or information after this brochure was published.

PLEASE NOTICE:

The consultant is responsible for the actual installation and mounting of the product. The mentioned values with respect to temperatures are not appropriate to be used to determine the physical properties. These properties are also dependent on humidity and the temperature of the air inside and outside of the H.V.A.C. system.

TRADEMARKS:

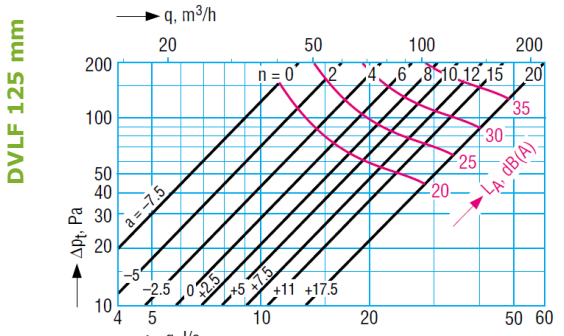
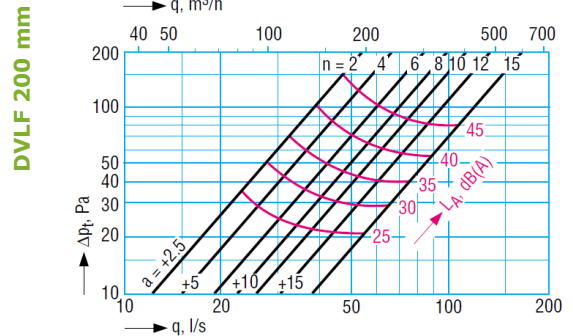
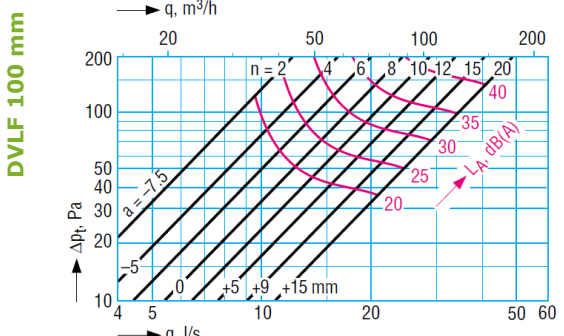
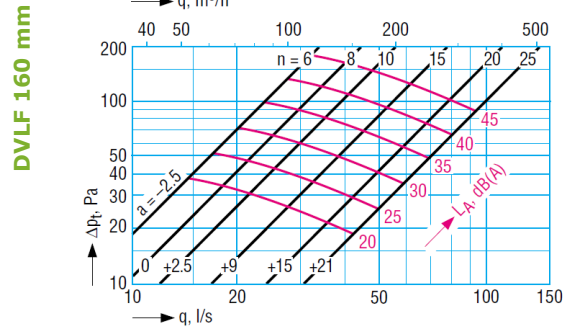
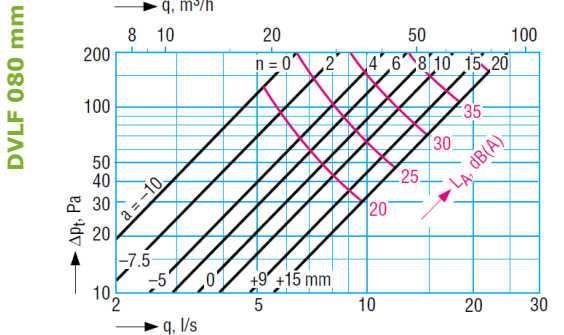
DEC International and the DEC logo are trademarks, or registered trademarks of Dutch Environment Corporation BV in the Netherlands and/or other countries.



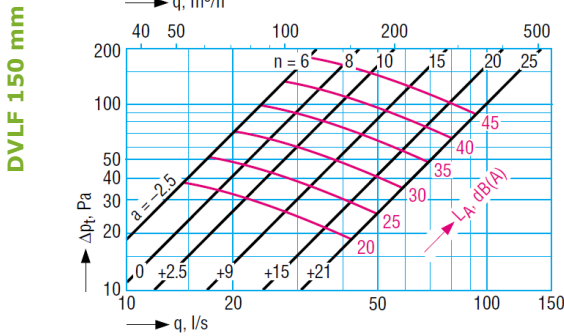
DVLF EXHAUST AIR VALVE

AIR MANAGEMENT SYSTEMS

Description, air flow, pressure drop, sound data

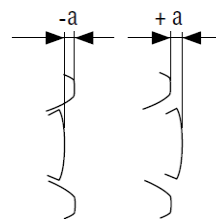


internal slot orifice open 10 mm



Size	SOUND POWER LEVEL Correction of sound level in dB at (Hz)							
	63	125	250	500	1000	2000	4000	8000
080	-8	-7	-5	-4	-1	-2	-5	-12
100	-7	-6	-6	-4	-2	-1	-4	-11
125	-6	-5	-3	-4	-2	-1	-4	-13
160	1	2	1	-1	1	-4	-9	-18
200	1	2	4	0	-1	-4	-10	-18

Size	SOUND ATTENUATION Correction of sound level in dB at (Hz)							
	63	125	250	500	1000	2000	4000	8000
080	23	23	16	15	13	10	6	9
100	22	21	15	13	11	10	6	9
125	21	19	13	11	10	10	7	9
160	20	16	12	10	9	10	8	8
200	17	12	7	5	4	4	7	5



n = number of revolutions open
a = 0 +/- mm

LIABILITY:
The information contained in this brochure was current on the publication date. DEC INTERNATIONAL reserves the right to make changes in details at any time without prior notice. In order to avoid misunderstandings, any interested party is advised to contact DEC INTERNATIONAL checking for any changes in materials and/or information after this brochure was published.

PLEASE NOTICE:
The consultant is responsible for the actual installation and mounting of the product. The mentioned values with respect to temperatures are not appropriate to be used to determine the physical properties. These properties are also dependent on humidity and the temperature of the air inside and outside of the H.V.A.C. system.

TRADEMARKS:
DEC International and the DEC logo are trademarks, or registered trademarks of Dutch Environment Corporation BV in the Netherlands and/or other countries.