

Constant volume flow controller



HF-VFL
Constant volume flow
controller in round design
for constant control of
airflows



Constant volume flow controller in round design for constant control of airflows



Application

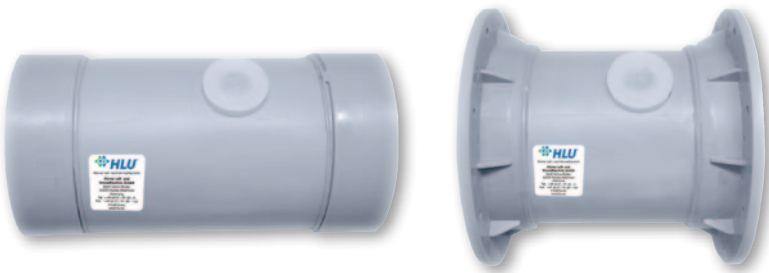
- HF-VFL constant volume flow controller is designed for use in ventilation and air conditioning systems in non-aggressive areas.
- Temperature range + 10 °C to + 60 °C
- Can be installed in all positions

Description

- Mechanical self-acting membrane
- For volume flow control with preset value | Tolerance range +/- 10 %
- Without adjustment option
- Housing made of PPs
- membrane housing (depending on size) made of polycarbonate or PVC | Control membrane made of silicone

Design

- HF-VFL-R
Designed with pipe connection on both sides for pipeline installation with soft PVC sleeves
- HF-VFL-M
with sleeve connection on both sides
- HF-VFL-F
with flange connection on both sides



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Specification

Mechanical constant volume flow controller HF-VFL with self-acting membrane, round design with both sided pipe connection for pipeline installation. For volume flow control with preset value; without adjustment option.

Tolerance range +/- 10 %

Temperature range + 10 °C to + 60 °C

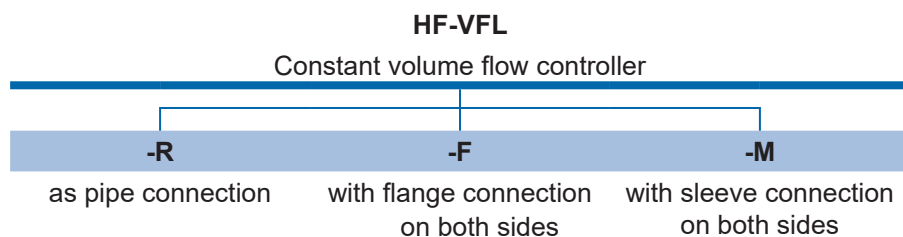
Housing made of PPs, membrane housing (depending on size) made of polycarbonate or PVC and control membrane.

The HF-VFL constant volume flow controller is designed for use in ventilation and air conditioning systems in non-aggressive areas.

- with pipe connection on both sides / smooth
 Manufacturer : **Hürner Luft- und Umwelttechnik**
 Type : **HF-VFL-R**
- with sleeve connection on both sides
 Manufacturer : **Hürner Luft- und Umwelttechnik**
 Type : **HF-VFL-M**
- with flange connection on both sides
 Manufacturer : **Hürner Luft- und Umwelttechnik**
 Type : **HF-VFL-F**

Order example

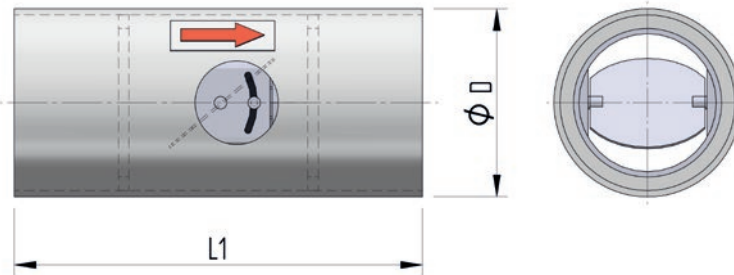
HF-VFL-M 110



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HF-VFL-R

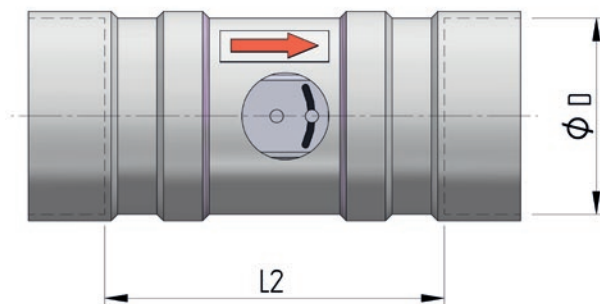


Size	Dimensions	Article no.	Article no.
Ø D	L1	PPs VFL-R	PP-EL-s
90	196	412-013-000100	412-373-000200
110	220	412-013-000115	412-373-000215
125	228	412-013-000130	412-373-000230
160	258	412-013-000145	412-373-000245
200	285	412-013-000160	412-373-000260
250	330	412-0103-000175	412-373-000275

Recommended straight flow path min. 1 x Ø D

All dimensions in mm
Special dimensions are not available.

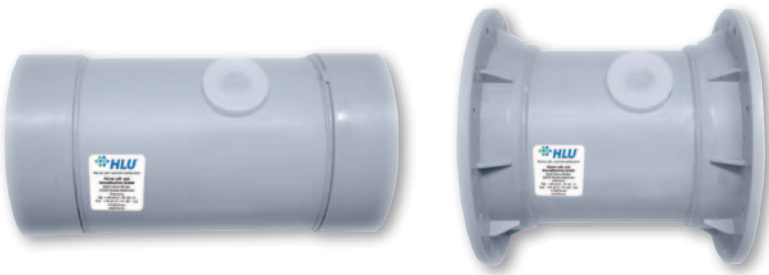
HF-VFL-M



Size	Dimensions	Article no.	Article no.
Ø D	L2	PPs VFL-R	PP-EL-s
90	156	412-013-000010	412-373-000010
110	150	412-013-000025	412-373-000025
125	168	412-013-000040	412-373-000040
160	198	412-013-000055	412-373-000055
200	225	412-013-000070	412-373-000070
250	270	412-013-000085	412-373-000085

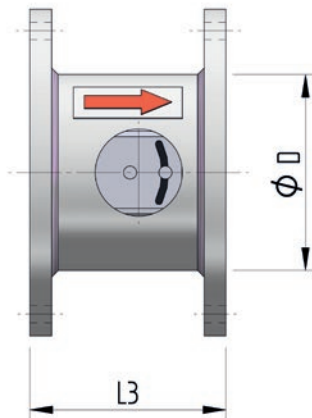
Recommended straight flow path min. 1 x Ø D

All dimensions in mm
Special dimensions are not available.



Constant volume flow controller in round design for constant control of airflows

HF-VFL-F



Size	Dimensions	Article no.	Article no.
Ø D	L3	PPs VFL-R	PP-EL-s
90	90	412-013-000100	412-373-000100
110	104	412-013-000115	412-373-000115
125	122	412-013-000130	412-373-000130
160	152	412-013-000145	412-373-000145
200	179	412-013-000160	412-373-000160
250	224	412-0103-000175	412-373-000175

Recommended straight flow path min. 1 x Ø D

All dimensions in mm
Special dimensions are not available.

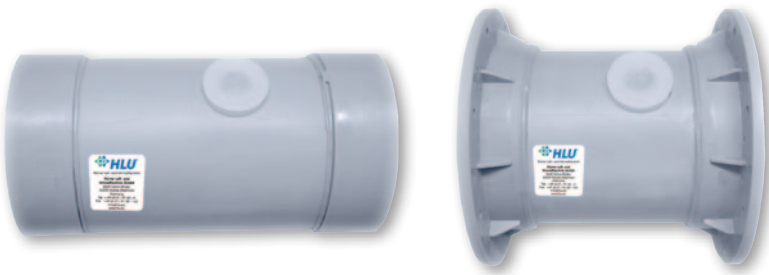
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Adjustable volume flow setpoints

Size	\dot{V}											\dot{V}_{Nenn}	\dot{V}_{Ref}
	1	2	3	4	5	6	7	8	9	10	11		
$\varnothing D$	m ³ /h												
90	14	17	22	28	33	39	50	62	73	82	-	82	33
110	18	24	33	39	48	58	71	79	92	105	122	122	71
125	39	48	58	69	82	98	113	131	150	171	195	195	98
160	58	82	102	128	156	175	195	217	242	272	323	323	156
200	94	127	166	207	253	297	343	391	436	481	529	529	297
250	159	215	278	337	399	473	519	574	632	705	764	764	473

Optimal application range for \dot{V}_{Nenn}



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L_{PA} Sound pressure level / Flow noise in dB(A)*

Size	\dot{V}	\dot{V}	Sound pressure level	Size	\dot{V}	\dot{V}	Sound pressure level
$\emptyset D$	(m ³ /h)	(l/s)	$\Delta p_t = 50 \text{ Pa}$	$\emptyset D$	(m ³ /h)	(l/s)	$\Delta p_t = 50 \text{ Pa}$
90	14	4	30	160	58	16	26
	22	6	30		102	28	29
	50	14	32		175	49	32
	73	20	33		242	67	34
	82	23	34		323	90	36
110	18	5	31	200	94	26	23
	39	11	33		125	70	27
	58	16	35		391	109	30
	92	26	36		481	134	31
	122	34	37		529	147	31
125	39	11	36	250	159	44	23
	69	19	37		337	94	26
	98	27	37		519	144	28
	150	42	38		632	175	28
	195	54	39		764	212	28

Sound pressure level at pressure difference ... Δp_t .

www.hlu.eu

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