



General information:

Rev.: 28.08.2016

Differential air pressure metering orifices in sizes LRM 40 to LRM 125 are used to build up a pressure differential and measuring of volume flows in combustion air lines.

Volumetric flow rate range:	40 – 1400 m _N ³ /h
Common Intake air pressure:	50 – 100 mbar
Common pressure differential:	18 – 25 mbar (special designs possible)
Common pressure drop:	30 – 60 % of differential

Fluid and operating temperature:	from -10 °C to +60 °C
Mounting position:	no restriction

Thanks to their compact, rugged industrial design and their ability to operate in any mounting position, these differential air pressure orifices are highly versatile and can be fitted with optional accessories.

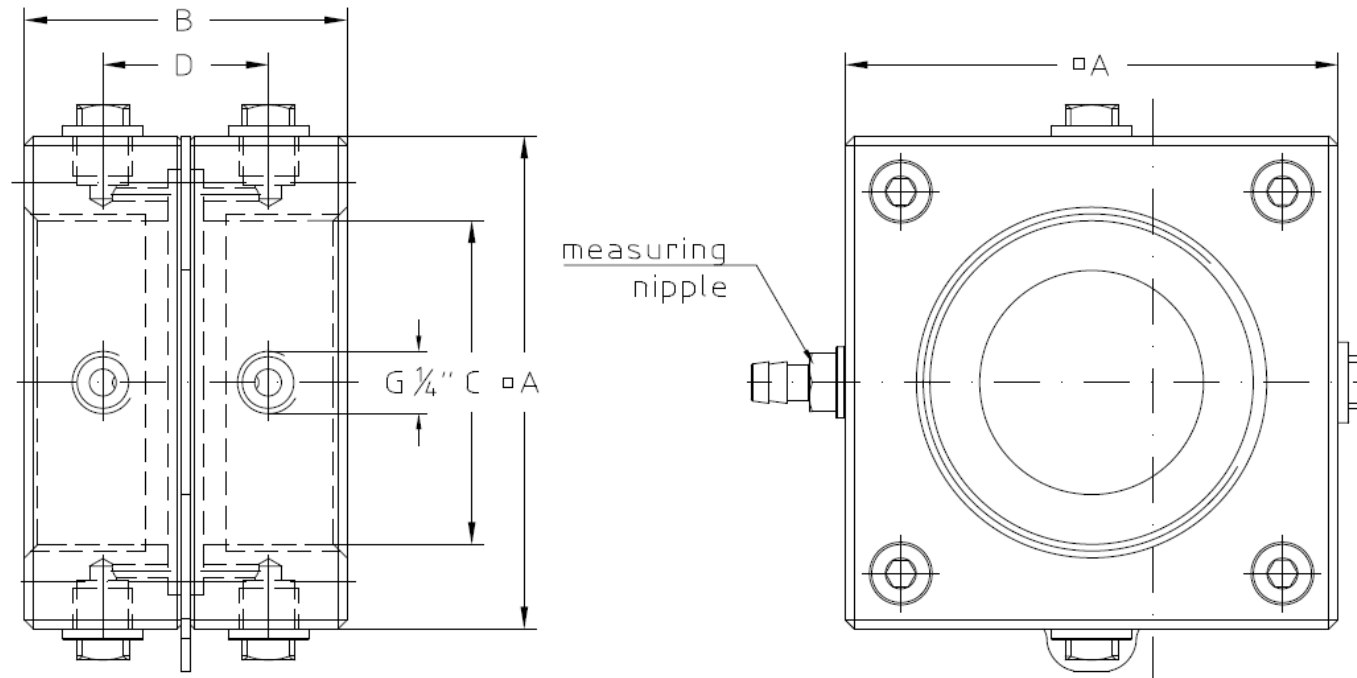
The orifice plates are rated and dimensioned on the basis of user-specific data, taking into account project-related physical factors.

All orifice plates are manufactured and labelled in-house to close tolerance specifications.



Rugged aluminium body with threaded ports on all 4 sides (4 x 2 G 1/4" ports) for connection of optional accessories, metal sealing system, orifice plate easy to change without dismounting the orifice body, self-centring orifice plates

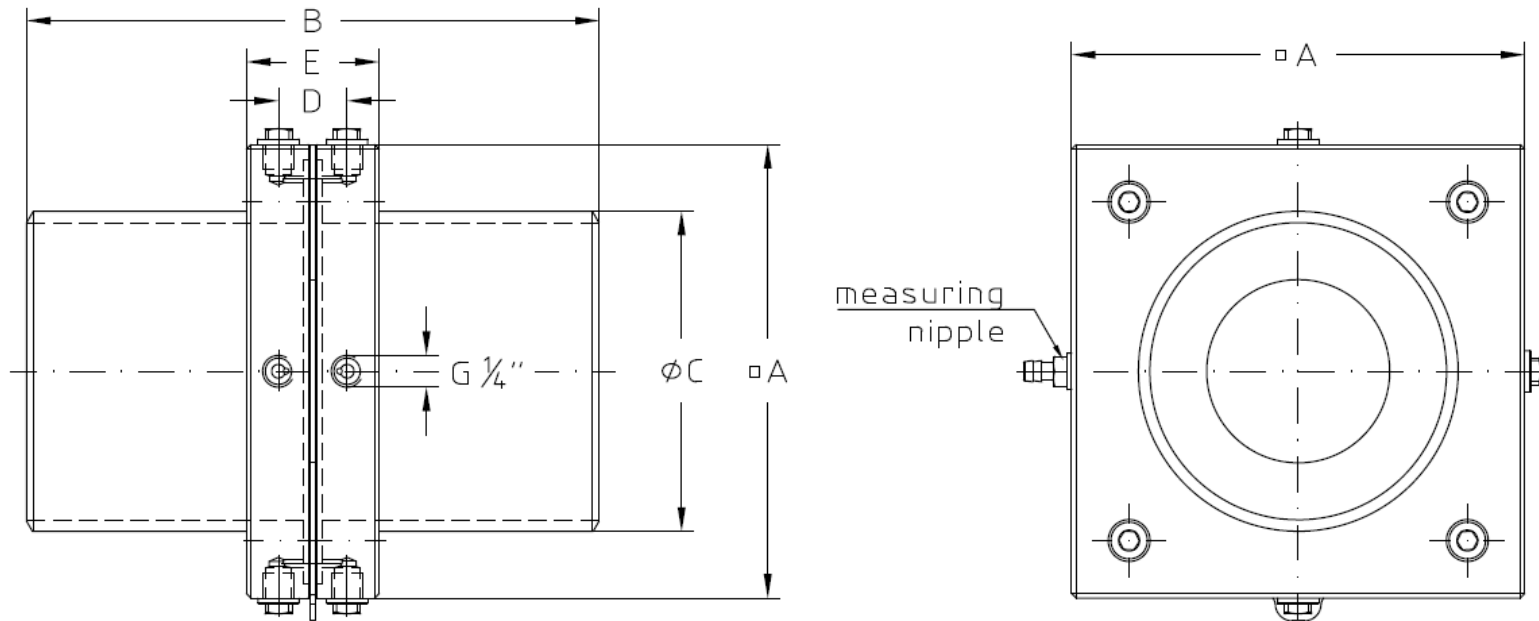
Their ability to support attached optional accessories such as pressure switches, vertical pressure gauges or differential pressure sensors adds further to the versatility of these units.



size of measuring orifice	flow rate V_n max. [m ³ /h]	supply pressure related to nominal volume approx. pe [mbar]	differential pressure approx. [mbar]	pressure loss approx. [mbar]	overall size $\varnothing A$ [mm]	overall length B [mm]	pipe connection C [mm]	distance D [mm]	weight approx. [kg]
LRM 40	130	50 - 100	10 - 30	5 - 18	80	62	Rp 1 1/2" (48,3x3,6)	32	1,18
LRM 50	230	50 - 100	10 - 30	5 - 18	110	72	Rp 2" (60,3x3,6)	37	1,90
LRM 65	380	50 - 100	10 - 30	5 - 18	110	72	Rp 2 1/2" (76,1x4,0)	37	1,62

For installation of the measuring orifice, it is mandatory that the length of the straight pipe sections upstream and downstream of the measuring orifices are at least three times the nominal diameter (DN), but ideally five times the nominal diameter (DN).

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size of measuring orifice	flow rate V_n max. [m ³ /h]	supply pressure by nominal volume approx. [mbar]	differential pressure approx. [mbar]	pressure loss approx. [mbar]	overall size $\square A$ [mm]	overall length B [mm]	pipe connection C [mm]	distance D [mm]	distance E [mm]	weight approx. [kg]
LRM 80	530	50 - 100	10 - 30	5 - 18	160	350	$\phi 88,9 \times 4,5$	30	58	5,87
LRM 100	900	50 - 100	10 - 30	5 - 18	160	350	$\phi 114,3 \times 4,5$	30	58	6,32
LRM 125	1400	50 - 100	10 - 30	5 - 18	200	350	$\phi 139,7 \times 5,0$	30	58	9,04

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