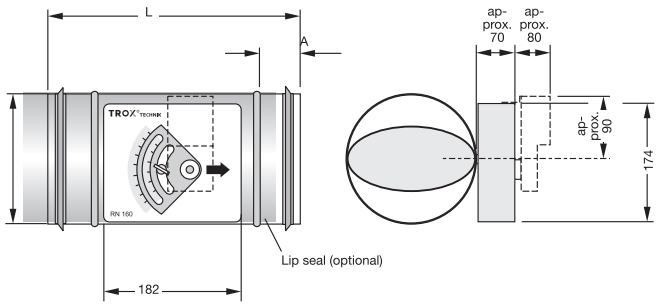
TROX® TECHNIK
The art of handling air

Constant Volume Dampers Type 'RN'

This is a mechanical self-balancing constant flow regulator suitable for circular ductwork. It does NOT require an actuator or electronic controller to operate. It saves cost and time!



Dimensions (mm)		
D	ØDa	L
80	79	310
100	99	310
125	124	310
160	159	310
200	199	310
250	249	400
315	314	400
400	399	400

RN

Sound pressure level (dB[A])											
Size	$ØD_a$	Air Flow range	$\dot{V}$ vel= 5m/s	Δp_g = 100 Pa				Δp_g = 200 Pa			
				Air-regenerated noise		Case-radiated noise		Air-regenerated noise		Case-radiated noise	
				without silencer	with silencer Type CS (L = 1000 mm)	without acoustic cladding	with acoustic cladding	without silencer	with silencer Type CS (L = 1000 mm)	without acoustic cladding	with acoustic cladding
	(mm)	(l/s)	(l/s)	L_{pA}	L_{pA1}	L_{pA2}	L_{pA3}	L_{pA}	L_{pA1}	L_{pA2}	L_{pA3}
80	79	11 - 45	26	39	16	22	<	43	20	26	<
100	99	22 - 90	39	39	19	19	<	43	23	23	<
125	124	35 - 140	61	41	25	17	<	45	29	21	<
160	159	60 - 240	100	44	30	31	<	48	34	35	<
200	199	90 - 360	156	42	26	30	<	46	30	34	<
250	249	145 - 580	244	41	27	31	<	45	31	35	<
315	314	230 - 920	389	40	27	32	<	44	31	36	15
400	399	350 - 1400	628	46	34	46	16	50	38	50	20

< stands for values < 15

Nomenclature

Δp_g in Pa = Total pressure differential

v in m/s = Upstream velocity

L_{pA} in dB(A) = A-weighted sound pressure level of air-regenerated noise, system attenuation taken into account

L_{pA1} in dB(A) = A-weighted sound pressure level of air-regenerated noise with CS silencer, system attenuation taken into account

L_{pA2} in dB(A) = A-weighted sound pressure level of case-radiated noise, system attenuation taken into account

L_{pA3} in dB(A) = A-weighted sound pressure level of case-radiated noise with additional acoustic cladding, system attenuation taken into account

All sound pressure levels are based on 20 µPa.

System attenuation: See leaflet 5/9/EN/...

Order Code RN

Setpoint re-adjustment option

RN - 00 - 00 / 125 / B50

Type
Volume flow controller RN
with acoustic cladding RND

Size

Actuators
See leaflet

Material
Basic construction, steel, galv. 00
Surface powder-coated P1
Colour RAL 7001

Order Code RNS

RNS - 00 / 125 / 00

Type
Volume flow controller RNS

Size
80
100
125

Accessories
00 without
D2 lip seal on both ends[1)]

Material
Basic construction, steel, galv. 00
Surface powder-coated P1
Colour RAL 7001

1) Nominal size 80 on RNS and RN-P1 with adapter