

HDR-T Round Volume Control Damper

■ Description

HDR-T can operate as a manual shut off or balancing volume control damper within round spiral ductwork. Damper position is visually indicated at the hand locking quadrant arm.

■ Materials

- Frame: Galvanized steel, 0.5mm thickness.
- Blade: Galvanized steel, 0.5mm thickness.

■ Surface Finish

- Mill galvanized.

■ Axles

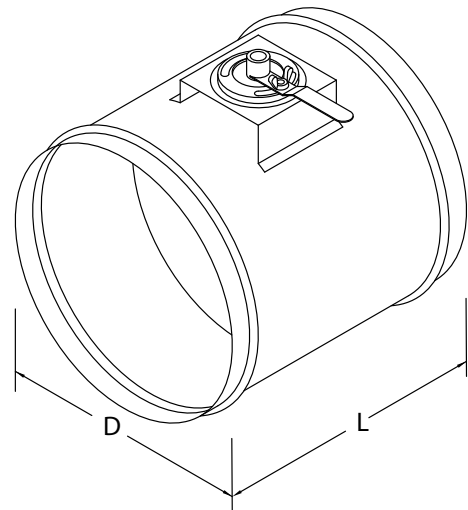
- Square bar (13mm) plated steel.

■ Bearing

- Engineering plastic sleeve as standard. Bronze bush is optional.

■ Temperature Limits

- -40°C to 116°C



Model Number (inch)	D (mm)	L (mm)
4	95	100
6	142	125
8	192	150
10	242	200
12	295	250
14	345	300
16	395	350

■ HDR-T Performance Data

Model Number (inch)	Maximum System Pressure (inch w.g.)	Maximum System Velocity (fpm)	Leakage	
			CFM /ft ²	% in Max. Air Flow
4	4.0	1500	18	1.2
6	4.0	1500	22	1.5
8	3.5	1500	25	1.7
10	3.5	1500	30	2.0
12	3.0	1500	35	2.3
14	3.0	1500	39	2.6
16	2.5	1500	45	3.0

• Leakage information is based on differential pressure of 1.0" w.g.

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Model Number	Air Flow Rate (CFM)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
4	Pt.(Pa)	15	60	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
	LPA (dB(A))	27	48	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50	>50
6	Pt.(Pa)	<2	4	10	16	27	40	50	56	>80	>80	>80	>80	>80	>80	>80
	LPA (dB(A))	<15	15	27	33	41	46	48	>50	>50	>50	>50	>50	>50	>50	>50
8	Pt.(Pa)	<2	<2	3	5	8	13	16	18	24	33	46	56	65	75	>80
	LPA (dB(A))	<15	<15	15	21	27	33	36	38	42	46	>50	>50	>50	>50	>50
10	Pt.(Pa)	<2	<2	<2	<2	3	4	5	6	8	11	15	17	20	22	25
	LPA (dB(A))	<15	<15	<15	<15	15	21	24	26	30	35	38	41	43	45	46
12	Pt.(Pa)	<2	<2	<2	<2	<2	<2	<2	<2	2	3	4	5	6	7	8
	LPA (dB(A))	<15	<15	<15	<15	<15	<15	17	20	23	28	33	34	37	38	40
14	Pt.(Pa)	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	2	3	4	5
	LPA (dB(A))	<15	<15	<15	<15	<15	<15	<15	17	20	25	28	31	33	24	37
16	Pt.(Pa)	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2
	LPA (dB(A))	<15	<15	<15	<15	<15	<15	<15	<15	17	22	26	28	30	32	33

- Pt. = Total pressure drop
- LPA = A-weighted sound pressure level
- All data has been generated in which damper blade is fully open.

Example:

Given: Model number = 10 inch, air flow rate = 700 CFM

Refer to the table above, Pt. = 5 Pa and LPA = 24 dB(A)

■ HDR-T Order Code Unit:Inch

Model	Model Number
HDR-T	10 inch

Example: HDR-T - 10 inch