

HDR-T Round Volume Control Damper



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

Materials

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

Bearing

Plastic sleeve as standard. Bronze bush is optional.

Surface Finish

Mill galvanized.

Axles

Hexagonal shaped engineering plastic or hexagonal bar mild steel.

Temperature Limits

-40°C to 116°C

Model Number (inch)	D (mm)	L (mm)
4	95	180
6	145	180
8	195	180
10	245	200
12	295	250
14	345	300
16	395	350

HDR-T Performance Data

Damper Width (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.

HDR-T Round Volume Damper

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 : mm*

Mode	Model Number
HDR-T	10 inch

Example: HDR-T - 10 inch