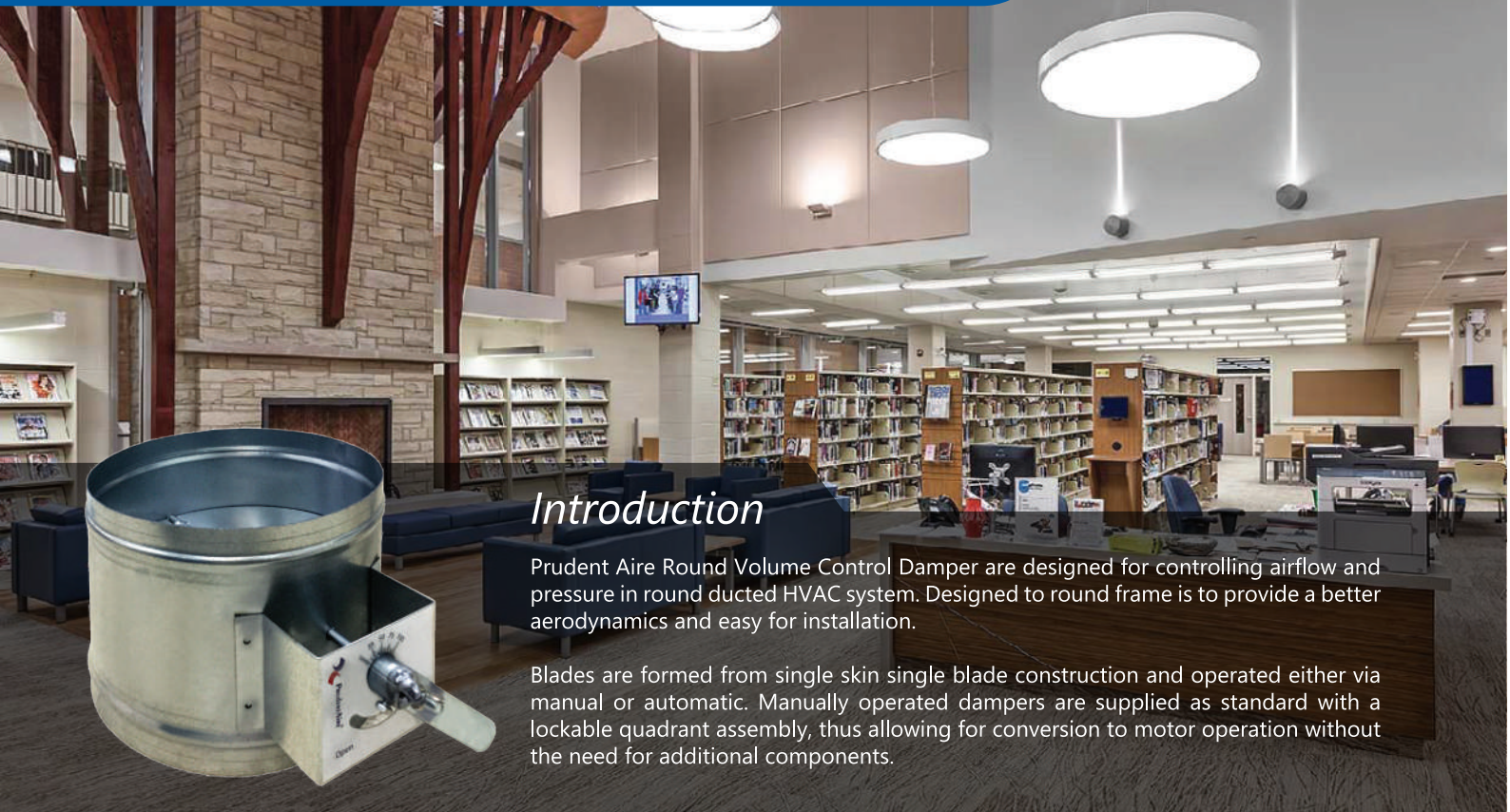




RVCD

*Round Volume
Control Damper*





Introduction

Prudent Aire Round Volume Control Damper are designed for controlling airflow and pressure in round ducted HVAC system. Designed to round frame is to provide a better aerodynamics and easy for installation.

Blades are formed from single skin single blade construction and operated either via manual or automatic. Manually operated dampers are supplied as standard with a lockable quadrant assembly, thus allowing for conversion to motor operation without the need for additional components.

CONSTRUCTIONS & MATERIALS

- Single skin, single blade construction
- Available in manual or motorized models
- Actuation available in following configurations:
 - i) Hand locking quadrant arm
 - ii) Bare shaft
 - iii) Factory installed actuator

Frame Construction



Galvanized Steel
(Size Dependant)

Blade Construction



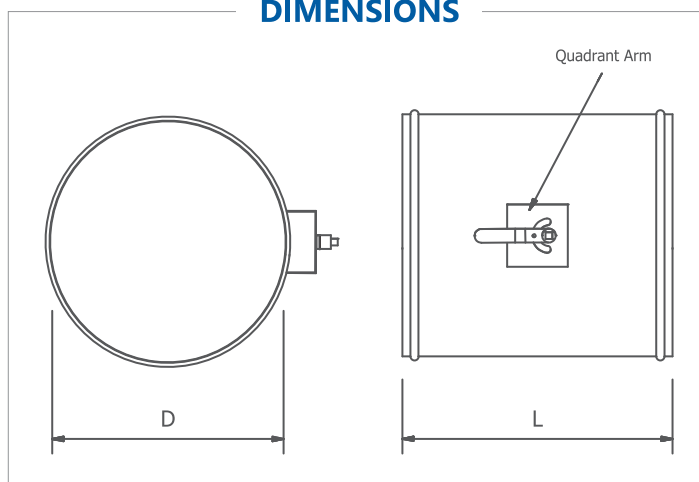
Galvanized Steel
(Size Dependant)

Construction Available



Stainless Steel
Available

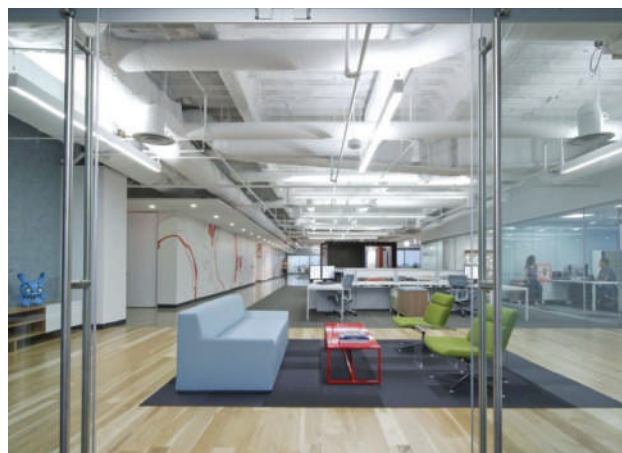
DIMENSIONS



STANDARD SIZE AVAILABLE & DIMENSIONS

Size Ordering (Inch)	D mm	L mm
4	100	150
6	150	150
8	200	150
10	250	200
12	300	250
14	350	300
16	400	350

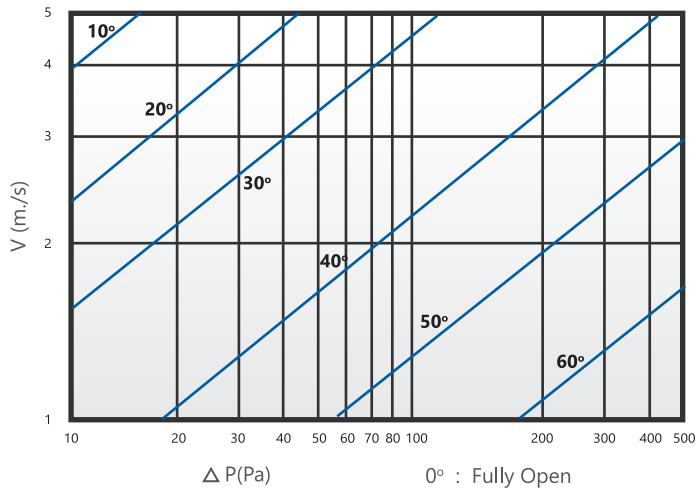
** Other size and dimensions are available upon request. Maximum size can up to 1000mm diameter.



AERODYNAMIC PERFORMANCE

STATIC PRESSURE DROP

PRESSURE DROP VS DUCT VELOCITY



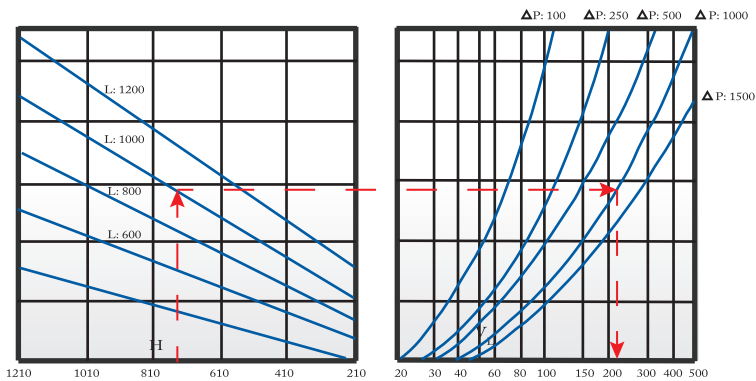
V Duct Velocity (m/s)

ΔP Static Pressure Drop (Pa)

00, 100, 200, ... etc Degree Opening

Max static pressure drop for fully open dampers is 10 Pa

CLOSED DAMPER LEAKAGE



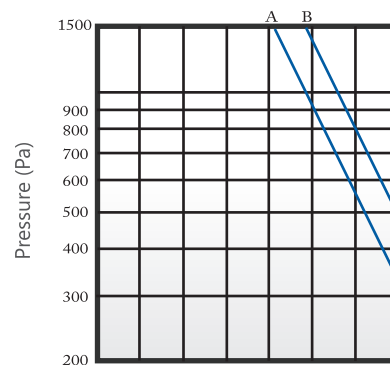
L Length (mm)

H Height (mm)

VL Volume Flowrate (cmh)

ΔP Pressure Difference (Pa)

OPERATION RANGE

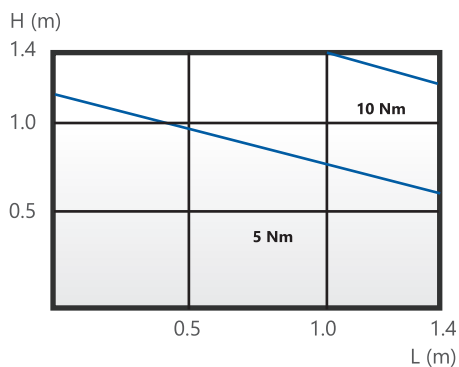


A Recommended operation range

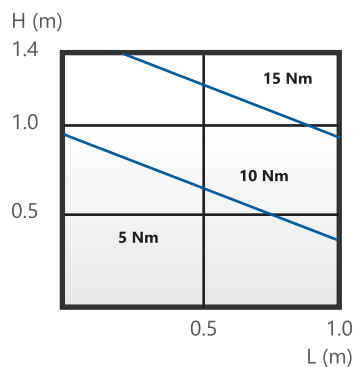
B Critical operation range

ACTUATOR TORQUE REQUIREMENTS

FOR PRESSURE LESS OR EQUAL TO 500 PA



FOR PRESSURE LESS OR EQUAL TO 1000 PA



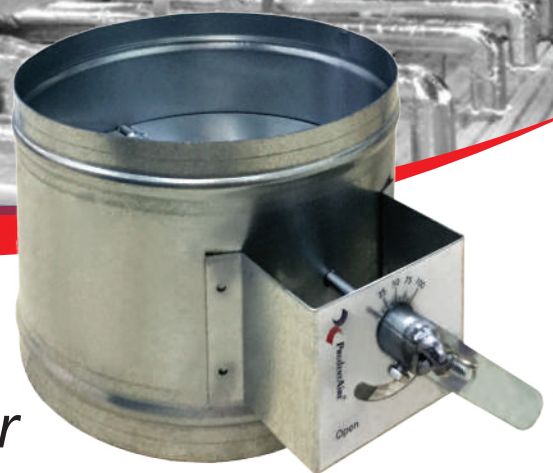
H Damper Height (m)

L Damper Length (m)



RVCD

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Products Range

Grilles



Diffusers



Dampers



Fire & Smoke Protection



VAV



Others



Accessories



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