

**ROTOLOK**

everything under control...



BUTTERFLY DAMPERS

**ROTOLOK USA**

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## INTRODUCTION

The fabricated range of Rotolok Butterfly Dampers are used extensively in the air and dust handling industries generally in fan systems.

They are normally operated remotely by air cylinders, electric or pneumatic actuators although manual versions through the customary hand lever, hand-wheel and reduction gearboxes can also be accommodated.

## SPECIFICATION

Construction is generally from Mild or Stainless Steel with the body of the valve formed from rolled steel angles or channels dependent on the size.

The Damper itself is a single plate sized for close fitment to the valve body and seats against a fixed stop. When closed, the expected leakage is considered to be less than 1% based on cross sectional area.

The split spindle mounting system minimizes turbulence within the air stream and these spindles are mounted on either two or four bolt flanged mounted sealed for life bearings.

Shaft seals can be fitted if required through a simple rubber gasket/lipseal arrangement or, on high temperature applications, the conventional stuffing box is utilized.

The type of actuator, to suit the clients requirements or specification, can be added to all sizes and, on pneumatic versions, limit switches and single solenoid spring return valves are included.

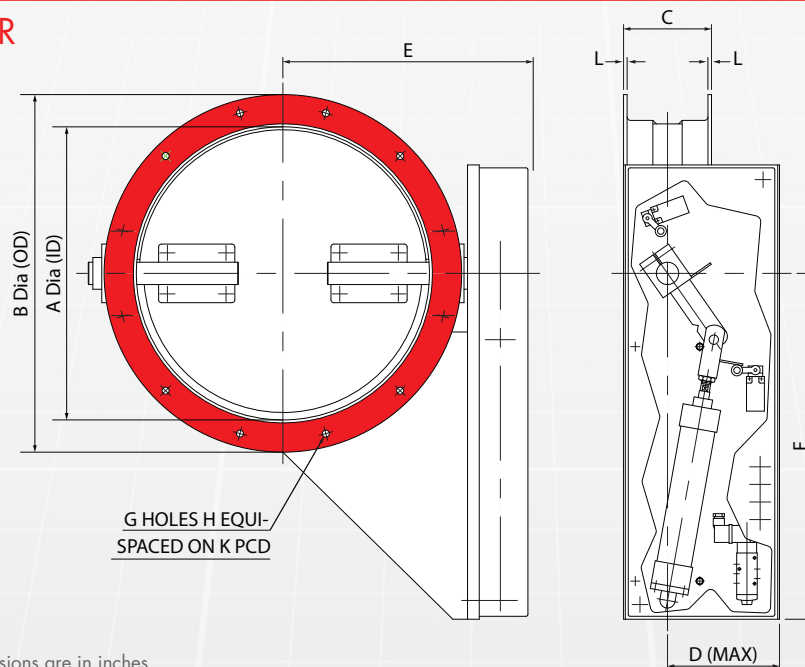
## RANGE

With fabrication, practically any size can be accommodated to suit the duct size with flanges also made to suit system designers needs.

The standard range starts at 10" diameter and extends to 24" in diameter. It is not recommended to go below 10" diameter. Square units and special sizes can be, and have been manufactured.

On valve size selection it is important to ensure that the ducting size is equal to or slightly larger than the valve bore. This is to prevent any possible interference during the damper operation in the area where the blade enters the ducting, or should there be any misalignment between the components on assembly.

## BUTTERFLY DAMPER



All dimensions are in inches

SIZE	A	B	C	D	E	F	G	H	K	L
10	10	13 <sup>5</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	7 <sup>3</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>2</sub>	18 <sup>3</sup> / <sub>4</sub>	8	M10	12 <sup>3</sup> / <sub>16</sub>	<sup>5</sup> / <sub>16</sub>
12	12	15 <sup>5</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub>	23 <sup>1</sup> / <sub>4</sub>	8	M8	14 <sup>1</sup> / <sub>4</sub>	<sup>1</sup> / <sub>4</sub>
14	14	17 <sup>5</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>8</sub>	13 <sup>5</sup> / <sub>8</sub>	23 <sup>1</sup> / <sub>4</sub>	8	M10	16 <sup>1</sup> / <sub>4</sub>	<sup>1</sup> / <sub>4</sub>
16	16	19 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>8</sub>	14 <sup>5</sup> / <sub>8</sub>	23 <sup>1</sup> / <sub>4</sub>	12	M10	18 <sup>1</sup> / <sub>4</sub>	<sup>1</sup> / <sub>4</sub>
18	18	21 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>8</sub>	15 <sup>5</sup> / <sub>8</sub>	23 <sup>1</sup> / <sub>4</sub>	12	M10	20 <sup>1</sup> / <sub>4</sub>	<sup>1</sup> / <sub>4</sub>
20	20	24 <sup>5</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	4 <sup>5</sup> / <sub>8</sub>	17 <sup>1</sup> / <sub>2</sub>	23 <sup>1</sup> / <sub>4</sub>	12	M12	22 <sup>5</sup> / <sub>8</sub>	<sup>1</sup> / <sub>4</sub>
22	22	26 <sup>3</sup> / <sub>8</sub>	6	5 <sup>1</sup> / <sub>2</sub>	19 <sup>3</sup> / <sub>16</sub>	23	16	M12	24 <sup>3</sup> / <sub>8</sub>	<sup>1</sup> / <sub>4</sub>
24	24	28 <sup>3</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	4 <sup>5</sup> / <sub>8</sub>	19 <sup>1</sup> / <sub>16</sub>	23 <sup>1</sup> / <sub>4</sub>	16	M12	26 <sup>3</sup> / <sub>8</sub>	<sup>1</sup> / <sub>4</sub>

Dimensions are approximate and subject to change without notice  
 Planning-in detail for general guidance only  
 (To cover safety aspects ask for our safety leaflets)  
 Drillings are Rotolok standards. Variations can be made.

