

Standard Industrial Round Actuated Damper

VentilationComponents.com's round actuated dampers are durable and cost effective.



Application

- Use for tight shut off or balancing of an air stream
- Various sizes available, built to suit round ducts and equipment
- Differential pressure ratings ranging from 15inWC to 50inWC available, with higher pressure ratings up to 100inWC available upon request

Features

- Flanged inlet and outlet connections
- Tight sealing positive stop blade
- Can be fitted with manual locking quadrant gear box with chain wheel, positioned rotary actuator, or cylinder lever actuator
- Available in a variety of materials

Benefits

- Short flange to flange connection
- Duct can be disconnect on one side to leave branch isolated
- Simple, reliable, and easy to maintain
- Heavy duty construction

Options

Size

Sizes ranging from 8.00in to 48.00in inside flange are available. For larger sizes, see our dual blade dampers.

Pressure rating

Three different pressure ratings are offered: up to 15inWC, up to 30inWC, and up to 50inWC. Custom pressure ratings up to 100inWC are available upon request.

Flange bolt pattern

The flange bolt patterns follow our standard. Different patterns are available upon request.

Shaft End Type

The shaft end, and its corresponding actuator mounting piece, are built to suit

Actuator supply

An actuator and accessories can be supplied upon request.

Materials

A variety of materials are offered to suit different applications.

Primary material

- 304 stainless steel
- 316 stainless steel
- Corten steel
- Carbon steel painted, moderate exposure

Bearing type

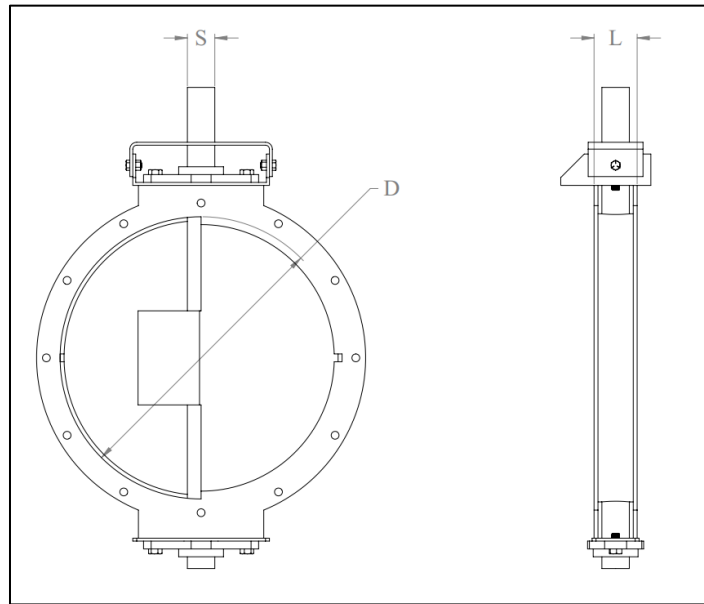
- Regular
- High temperature

Hardware material

- 304 stainless steel
- 316 stainless steel
- Type 18-8 stainless steel
- Zinc chromate grade 5
- Carbon steel grade 5

Other materials not listed are available upon request.

Data and dimensions

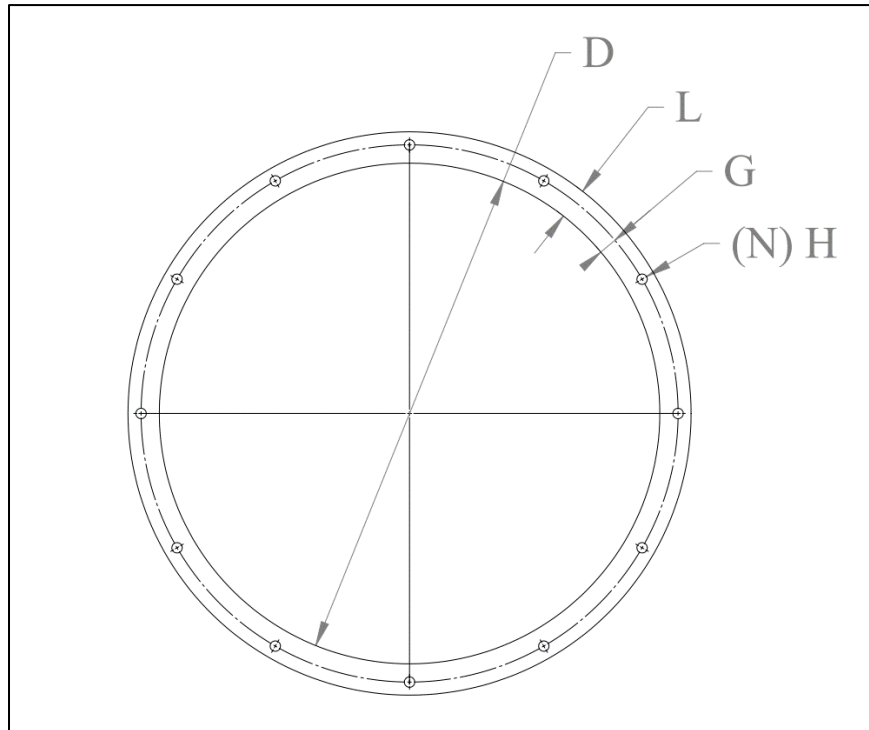


Item Number	"D" Nominal Size		Nominal Pressure Rating	"L" Length	"S" Shaft Size Diameter	Actuator Minimum Torque Required
	D _{LOWER}	D _{UPPER}				
	inches	inches				
DA-02-[8.00 to 16.00]-15	8.00	16.00	15	1.50	1.00	29
DA-02-[8.00 to 16.00]-30	8.00	16.00	30	1.50	1.00	59
DA-02-[8.00 to 16.00]-50	8.00	16.00	50	1.50	1.00	98
DA-02-[16.01 to 24.00]-15	16.01	24.00	15	1.50	1.00	80
DA-02-[16.01 to 24.00]-30	16.01	24.00	30	2.00	1.50	167
DA-02-[16.01 to 24.00]-50	16.01	24.00	50	2.25	1.50	279
DA-02-[24.01 to 31.00]-15	24.01	31.00	15	2.25	1.50	192
DA-02-[24.01 to 31.00]-30	24.01	31.00	30	2.25	1.50	383
DA-02-[24.01 to 31.00]-50	24.01	31.00	50	2.75	2.00	660
DA-02-[31.01 to 39.00]-15	31.01	39.00	15	2.25	1.50	325
DA-02-[31.01 to 39.00]-30	31.01	39.00	30	3.00	2.00	650
DA-02-[31.01 to 39.00]-50	31.01	39.00	50	3.00	2.00	1083
DA-02-[39.01 to 46.00]-15	39.01	46.00	15	3.00	2.00	542
DA-02-[39.01 to 46.00]-30	39.01	46.00	30	3.00	2.00	907
DA-02-[39.01 to 46.00]-50	39.01	46.00	50	3.50	2.50	1565
DA-02-[46.01 to 48.00]-15	46.01	48.00	15	3.50	2.50	647
DA-02-[46.01 to 48.00]-30	46.01	48.00	30	4.00	2.50	1123
DA-02-[46.01 to 48.00]-50	46.01	48.00	50	4.00	3.00	1786

Notes

1. Nominal Size to be specified by customer.
2. 3D model files and general arrangement drawings with installation details available upon order.

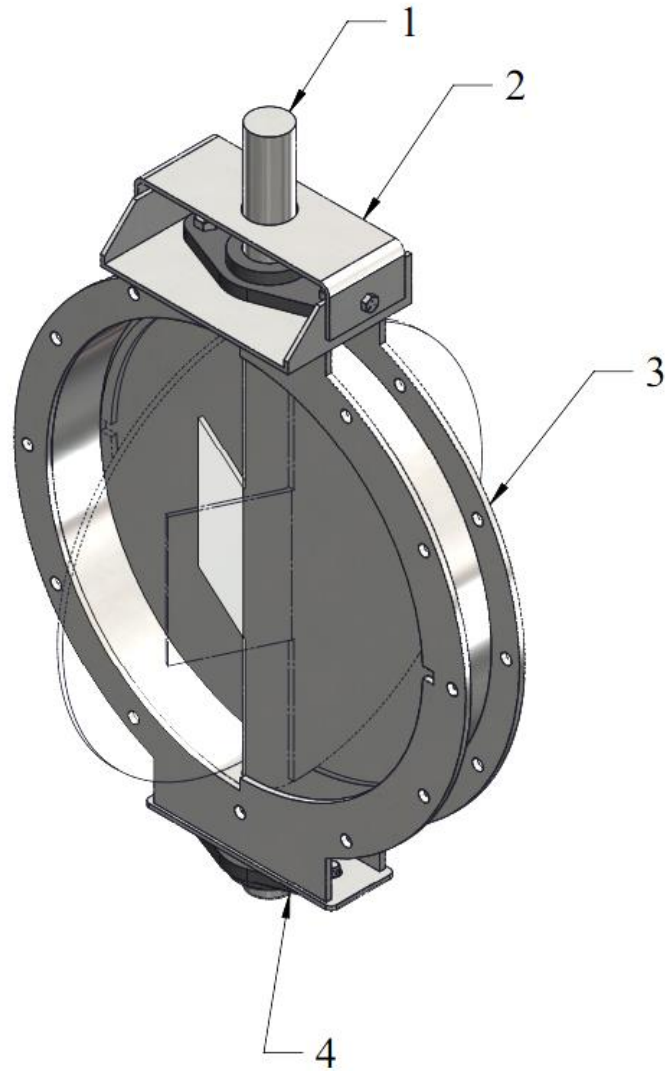
Standard round flange details



"D" Nominal Size		"L" Flange Leg	"G" Gauge	"N" Number of Holes	"H" Hole Diameter	Bolt Size
D _{LOWER} inches	D _{UPPER} inches					
0	8.00	1.50	0.875	4	0.500	3/8
8.01	16.00	1.50	0.875	8	0.500	3/8
16.01	24.00	1.50	0.875	12	0.500	3/8
24.01	31.00	1.50	0.875	16	0.500	3/8
31.01	39.00	2.00	1.125	20	0.500	3/8
39.01	46.00	2.50	1.375	24	0.625	1/2
46.01	54.00	2.50	1.375	28	0.625	1/2
54.01	62.00	2.50	1.375	32	0.625	1/2
62.01	70.00	2.50	1.375	36	0.625	1/2
70.01	78.00	2.50	1.375	40	0.625	1/2
78.01	86.00	3.00	1.750	44	0.625	1/2
86.01	94.00	3.00	1.750	48	0.625	1/2
94.01	101.00	3.00	1.750	52	0.625	1/2
101.01	108.00	4.00	2.250	56	0.625	1/2
108.01	120.00	4.00	2.250	60	0.625	1/2

Notes

1. Holes always land on centerlines.



Parts list

Number	Quantity	Description
1	1	Shaft and blade weldment
2	1	Actuator mount piece
3	1	Main weldment
4	2	Bearing

Notes

1. All hardware provided, unit is assembled when delivered.

How to order

To fully specify the DA-02 Round Actuated Damper, make a selection from the code boxes below.

Example: DA-02-C-2-R-3-30-S-C-C, shown below, is a round actuated damper with 316 stainless steel as the primary material, regular bearings, type 18-8 stainless steel hardware, a 30inWC pressure rating, and our standard bolt pattern. The customer has specified that the damper be 32.00in diameter and has provided a document, an actuator drawing, which details the damper shaft and actuator mount requirements.

1	2	3	4	5	6	7	8	9	10
DA	02	C	2	R	3	30	S	C	C
Specifications									
Please provide a drawing for our approval of a 32.00in diameter round actuated damper, as specified, and please build the shaft and actuator mount to suit the rotary actuator in the attached document.									

1 Equipment type			
DA	Damper		
2 Equipment sub-type			
02	Round Actuated Damper		
3 Nominal size			
C	Customer Specified Size		
4 Primary material			
1	304 Stainless Steel	4	Painted Carbon Steel, Moderate Exposure
2	316 Stainless Steel	C	Customer Specified Material
3	Corten Steel		
5 Bearing type			
R	Regular	C	Customer Specified Type
H	High Temperature		
6 Hardware material			
1	304 Stainless Steel	4	Zinc Chromate Grade 5
2	316 Stainless Steel	5	Carbon Steel Grade 5
3	Type 18-8 Stainless Steel	C	Customer Specified Material
7 Pressure rating			
15	15inWC, Up to 4500fpm	50	50inWC, Up to 6000fpm
30	30inWC, Up to 5000fpm	C	Customer Specified Pressure Rating
8 Flange bolt pattern			
S	Standard	C	Customer Specified Flange Bolt Pattern
9 Actuator and accessories supply			
C	Customer	V	VentilationComponents.com
10 Shaft end type and mount details			
C	Customer Supplied Details	V	VentilationComponents.com Supplied Details

Many types of customizations are available upon request.

Note: There are various factors which should be considered when selecting a damper for a specific application. Some of these factors are outside of the scope of this data sheet. If you have any questions regarding the application, compatibility, or use of this damper, contact VentilationComponents.com for more information.

Contact@VentilationComponents.com