



BUTTERFLY DAMPER VALVES

BUTTERFLY DAMPER VALVES

Econotrol

SIZE: 2" – 14" (50mm - 350mm)

TEMPERATURE: Up to 450°F (232°C) – Standard



Specifications

BUTTERFLY DAMPER VALVE: *Econotrol – Series 09*

Size Range 2" – 14" (50mm - 350mm)	Body Material Cast Iron Standard
Temperature Up to 450°F (232°C)	Stem Material 416 Stainless Steel Standard
Pressure Rating Varies with size. See Econotrol Series 09 Brochure	Disc Material Cast Iron Standard
Shutoff Rating ANSI Class II	Seat Style Swing-Thru
Body Style Wafer	Design Standard ASME/ANSI B16.34, with the exceptions of shell/hydro testing and "Face to Face"/laying lengths
Flange ASME/ANSI B16.1, Class 125 ASME/ANSI B16.5, Class 150	Applications Where flow control is needed in a Low-Pressure system with Moderate Cycling < 500K

Design Features

- Inboard bushings of graphited bronze for long life, non-freezing, low torque characteristics
- Close tolerance machining for minimal leakage and dependable flow characteristics
- Adjustable packing Graphited TEFLON® Braid. Valves can be repacked without removal from line
- Rugged mounting pads drilled and tapped for ease of installing actuating equipment and accessories
- Flatted, keywayed, hexed, square or plain round ends on shafts are available to facilitate factory or field mounting of all types of actuating equipment. (Flatted shaft shown)
- Lightweight, solid ring, wafer design for ease of installation. Four holes to insure proper alignment without transfer of pipe stresses to the valve body
- Recommended mounting with the shaft horizontal to the ground
- Contoured bore improves flow characteristics

BUTTERFLY DAMPER VALVES

Medium Duty

SIZE: 2" – 24" (50mm - 600mm)

TEMPERATURE: EXTENDED RANGE TO
900°F (482°C) WITH OPTIONAL MATERIALS



Specifications

BUTTERFLY DAMPER VALVE:

Medium Duty – Series 01

Size Range 2" – 24" (50mm - 600mm)	Body Material Cast Iron Standard, options available
Temperature Up to 900°F (482°C)	Stem Material 416 Stainless Steel Standard, options available
Pressure Rating Varies with size. See Medium Duty Series 01 Brochure	Disc Material Cast Iron Standard, options available
Shutoff Rating ANSI Class II	Seat Style Swing-Thru, Step, and Tadpole Seat
Body Style Wafer	Design Standard ASME/ANSI B16.34, with the exceptions of shell/hydro testing and "Face to Face"/laying lengths
Flange ASME/ANSI B16.1, Class 125 ASME/ANSI B16.5, Class 150	Applications Where flow control is needed in a Low-Pressure system with Moderate to High Cycling \pm 500K

Design Features

- DIN, 300lb flange, etc. drilling available
- Body & Disc material options of High Temperature Iron, Stainless and Carbon Steel etc.
- One external leak-path
- Extra Options like grease fittings, coatings etc.
- Good for Clean Air, Gases, and Liquid Media
- Valve seat options of Step and Tadpole are available
- Leakage Class III approaching Class IV
- Recommended mounting with the shaft horizontal to the ground
- Moderate stock kept on hand
- Availability of some sizes and materials frequently requires time to order from foundries.

BUTTERFLY DAMPER VALVES

Excel

SIZE: 2" – 60" (50mm - 1500mm)

TEMPERATURE: EXTENDED RANGE TO
-20°F (-4 °C) To 1500°F (482°C) WITH OPTIONAL MATERIALS



Specifications

BUTTERFLY DAMPER VALVE:

Excel– Series 40

<p>Size Range 2" – 60" (50mm - 1500mm)</p>	<p>Body Material Cast Iron Standard options available</p>
<p>Temperature -20°F (-4 °C) to 1500°F (815°C) with optional materials</p>	<p>Stem Material 416 Stainless Steel Standard, options available</p>
<p>Pressure Rating Varies with size. See Excel Series 40 Brochure</p>	<p>Disc Material Cast Iron Standard, options available</p>
<p>Shutoff Rating ANSI Class II</p>	<p>Seat Style Swing-Thru, Step, and Tadpole Seat</p>
<p>Body Style Wafer</p>	<p>Design Standard ASME/ANSI B16.34, with the exceptions of shell/ hydro testing and "Face to Face"/laying lengths</p>
<p>Flange ASME/ANSI B16.1, Class 125 ASME/ANSI B16.5, Class 150 ASME/ANSI 16.47 Class 150 Series A, 26" (650 mm) and up.</p>	<p>Applications Where flow control is needed in a Low-Pressure system with Very High Cycles 1M +</p>

Design Features

- PDC's Premium Butterfly Damper Valve includes the Medium Duty upgrades and adds many more.
- Functions very well in "Dirty Service" and challenging media
- DIN, 300lb flange, etc. drilling available
- Body & Disc material options of High Temperature Iron, Stainless and Carbon Steel etc.
- Power and Idle End bushing-packing glands
- Idle End Shaft accessible for accessories like Limit Switches and high cycle Out-board Bearings
- Extra Options like grease fittings, coatings etc.
- Valve seat options Step and Tadpole are available
- Leakage Class III approaching Class IV
- Can be mounted vertically with optional thrust plate
- Moderate stock kept on hand
- Availability of some sizes and materials frequently requires time to order from foundries.

BUTTERFLY DAMPER VALVES

Flanged

SIZE: 4" – 14" (100mm - 350mm)

TEMPERATURE: Up to 450°F (232 °C) – Standard



Specifications

BUTTERFLY DAMPER VALVE:

Flanged – Series 39

Size Range 4" – 14" (100mm - 350mm)	Body Material Cast Ductile Iron Standard
Temperature Up to 450°F (232 °C)	Stem Material 416 Stainless Steel Standard, options available
Pressure Rating 25 PSI (1 Bar) containment	Disc Material Cast Iron Standard, options available
Shutoff Rating ANSI Class II	Seat Style Swing-Thru and Angle Seat
Body Style Wafer	Design Standard ASME/ANSI B16.34, with the exceptions of shell/hydro testing and "Face to Face"/laying lengths
Flange ASME/ANSI B16.1, Class 125 ASME/ANSI B16.5, Class 150	Applications Where flow control is needed in a Low-Pressure system with Moderate Cycling < 500K

Design Features

- Inboard bushings of graphited bronze for long life, non-freezing, low torque characteristics
- Close tolerance machining for minimal leakage and dependable flow characteristics
- Adjustable packing Graphited TEFLON® Braid. Valves can be repacked without removal from line
- Rugged mounting pads drilled and tapped for ease of installing actuating equipment and accessories
- Flatted, keywayed, hexed, square or plain round ends on shafts are available to facilitate factory or field mounting of all types of actuating equipment. (Flatted shaft shown)
- Recommended mounting with the shaft horizontal to the ground
- Contoured bore improves flow characteristics

BUTTERFLY DAMPER VALVES

Reduced Port

SIZE: 3 X 2-1/2" (80mm x 65mm)– 14 X 12" (350mm x 300mm)

TEMPERATURE: EXTENDED RANGE TO
900°F (482°C) WITH OPTIONAL MATERIALS



Specifications

BUTTERFLY DAMPER VALVE:

Reduced Port Single Reduction– Series 15 (Single Packing Gland)

Consult PDC for more options

<p>Size Range 3 X 2-1/2" (80mm x 65mm) – 14 X 12" (350mm x 300mm)</p>	<p>Body Material Cast Iron Standard, options available</p>
<p>Temperature Up to 900°F (482°C)</p>	<p>Stem Material 416 Stainless Steel Standard, options available</p>
<p>Pressure Rating Varies with size. See Reduced Port Brochure</p>	<p>Disc Material Cast Iron Standard, options available</p>
<p>Shutoff Rating ANSI Class II</p>	<p>Seat Style Swing-Thru, Step, and Tadpole Seat</p>
<p>Body Style Wafer</p>	<p>Design Standard ASME/ANSI B16.34, with the exceptions of shell/ hydro testing and "Face to Face"/laying lengths</p>
<p>Flange ASME/ANSI B16.1, Class 125 ASME/ANSI B16.5, Class 150</p>	<p>Applications Where flow control is needed in a Low-Pressure system with Moderate to High Cycling $\pm 500K$</p>

Design Features

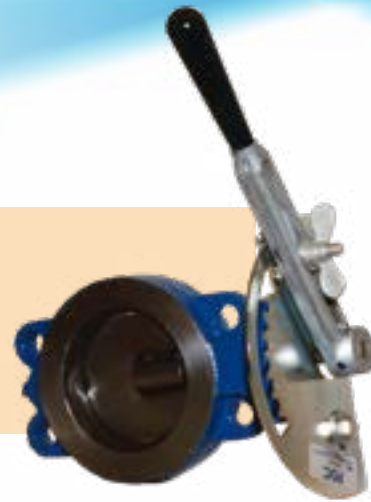
- DIN, 300lb flange, etc. drilling available
- Body & Disc material options High Temperature Iron, Stainless and Carbon Steel etc.
- One external leak-path
- Extra Options like grease fittings, coatings etc.
- Availability of some sizes and materials frequently requires time to order from foundries
- Good for Clean Air, Dirty Air, Gases, and Liquid Media
- Valve seat options Step and Tadpole are available
- Leakage Class III approaching Class IV
- Recommended mounting with the shaft horizontal to the ground

BUTTERFLY DAMPER VALVES

Combustion

SIZE: 2" – 14" (50mm - 350mm)

TEMPERATURE: EXTENDED RANGE TO
900°F (482°C) WITH OPTIONAL MATERIALS



Specifications

BUTTERFLY DAMPER VALVE: *Combustion – Series 22*

Size Range 2" – 14" (50mm - 350mm)	Body Material Cast Iron Standard
Temperature Up to 900°F (482°C)	Stem Material 416 Stainless Steel Standard
Pressure Rating 2 PSI (.1 Bar) max	Disc Material Cast Iron Standard
Shutoff Rating ANSI Class II	Seat Style Swing-Thru
Body Style Wafer	Design Standard ASME/ANSI B16.34, with the exceptions of shell/ hydro testing and "Face to Face"/laying lengths
Flange ASME/ANSI B16.1, Class 125 ASME/ANSI B16.5, Class 150	Applications Where flow reduction is needed in a Low-Pressure system. Ideal for "Set and Forget" applications.

Design Features

- Inboard bushings of graphited bronze for long life, non-freezing, low torque characteristics
- Close tolerance machining for minimal leakage and dependable flow characteristics
- Adjustable packing Graphited TEFLON® Braid. Valves can be repacked without removal from line
- 2 PSI max
- One leak-path
- Low Cycling < 0-100K Trim Valve
- Fast Delivery
- Recommended mounting with the shaft horizontal to the ground
- Manual Actuation Only
- No Seat Options
- Swingt-Thru, paddle disc design for "Set and Forget" applications.
- Moderate stock kept on hand

BUTTERFLY DAMPER VALVES

Thread End

SIZE: 1" – 4" (25mm - 100mm)

TEMPERATURE: Up to 225°F (107 °C) Standard
Up to 300°F (148°C) Viton Seals



Specifications

BUTTERFLY DAMPER VALVE:

Thread End – Series 07

<p>Size Range 1" – 4" (25mm -1600mm)</p>	<p>Body Material Cast Iron</p>
<p>Temperature Up to 225°F (107 °C) Standard Up to 300°F (148°C) Viton Seals</p>	<p>Stem Material 416 Stainless Steel</p>
<p>Max Containment Pressure 25 PSI (1.7 Bar)</p>	<p>Disc Material Carbon Steel</p>
<p>Max Differential Pressure 5 PSI (0.3 Bar)</p>	<p>Seat Style Angle and Swing-Thru</p>
<p>Body Style Female Threaded Pipe</p>	<p>Shaft Seal EPT or Viton O-Rings</p>
<p>Connection National Pipe Thread (NPT)</p>	<p>Applications Where flow control is needed in a Low-Pressure system with Moderate Cycling < 500K</p>

Design Features

- Simplicity of construction
- Close tolerance angle seated disc machining for minimal leakage.
- Thread end construction provides maximum economy by eliminating need for mating flanges.
- Thread end valves can be customized for electric and pneumatic actuation. Consult factory.

PDC[®]

Process Development & Control, LLC

A DIVISION OF **NECT**

1075 Montour West Industrial Park
Coraopolis, PA 15108

Tel: 724-695-3440

Toll free (US Only): 888-PDC-4070

Fax: 724-695-8635

Email: sales @ pdcvalve.com



Quality Certification

PDC Valve is
ISO 9001:2015
certified!

AIS
Compliance

