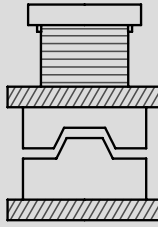


**We Look
Forward to an
Opportunity to
Work for You!**

Elite

Industrial Controls



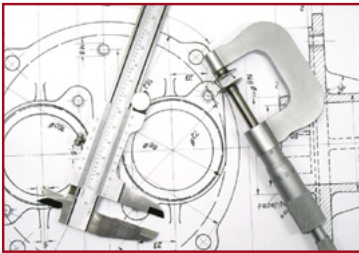
Delivering Engineering & Manufacturing Excellence

Rev. 02/18/21



- Precision Laser Cutting Technology
- Advanced CNC Punch / Turret Press Capabilities
- Press Brake Forming / Bending
- MIG/TIG/Spot Welding
- Plastic Extrusion
- Powder Coating
- Permanent Hardware Insertion
- Product Assembly
- CAD/CAM Capabilities
- Engineering Design Services
- Infrastructure Planning and Project Management

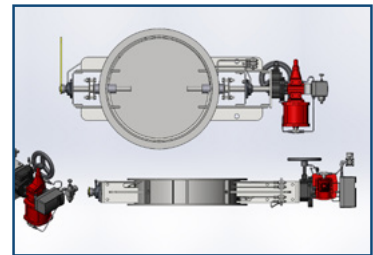
CONCEPT



Our policy is to listen to the customer and understand the application of the intended design/product and what is important to the customer. We will offer several levels of Elite's engagement during this process and will accommodate to whatever you are comfortable with. We will be glad to exchange emails, participate in conference calls or meet in person as the projects needs require us to do so.

DESIGN

Once the concept is finalized we will start creating an initial design using the latest designing standards and technologies available. This will include using top 3D CAD software to help visualize the concept. The design software also drastically reduces the need for a prototype for form, fit, and function verification, thereby reducing our manufacturing costs.



MANUFACTURE



Once we finalize the design, and conduct thorough design reviews, the product is now ready to be launched into production. With our state of the art advanced manufacturing infrastructure, the manufacturing process is smooth while ensuring the highest level of quality. Our manufacturing process follows the six sigma principles. There are in process inspections throughout the entire product flow. We are here to serve you and will do whatever we can to make it a success. We want to prove to you that you made the right choice by choosing Elite for your manufacturing needs.

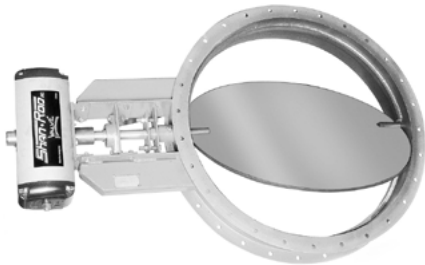
ROUND BUTTERFLY DAMPERS



*2000 SERIES
ANSI CLASS WAFER*

The 2000 series butterfly flange less control valve can be used in either throttling or on/off of varies applications. The valve body is constructed of carbon steel, stainless steel, aluminum or special alloy with fabricated brackets and stuffing boxes welded to the body. The valve is constructed to bolt between two adjacent flanges on the duct/pipe. The standard valve design is to bolt between ANSI/ASME B16.1 Class 125 flanges. Sizes 24" and smaller also match ANSI/ASME B16.5 Class 150. The valve's flange faces are flat face, machined or serrated are available as an option.

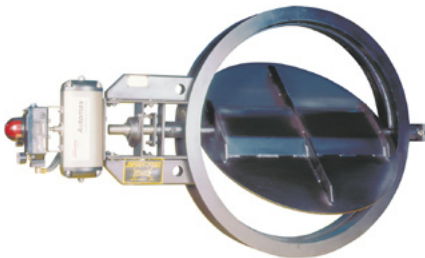
- Sizes up to 66" (Larger and special sizes consult for quote)
- Design is to bolt between 125/150# flanges.
- Blind end bearing is available as an option.
- Standard shaft is stub type. Through shaft is available as an option.
- Maximum pressure drop rating is at ambient temperature and 0°
- All seat types may not be available for all sizes. Extended face-to-face may be required for some seats.



*2100 SERIES
DUCTWORK DRILLED -
MEDIUM DUTY*

The 2100 series is a standard damper furnished in sizes 4" to 48" for all medium duty services.

- Body, Disc & Flange: Standard – Carbon Steel, Optional – 304
- Drilling: Ductwork
- Shaft: Standard – 304 S/S
- Bushings: Carbon/Graphite
- Packing Follower: Standard – 304 S/S
- Stuffing Box Housing: Standard – Carbon Steel, Optional – 304 S/S
- Maximum Operating Temperature: Carbon Steel – 750°F, 304 SS – 1000°F
- Maximum Static Pressure: 20 PSIG. at ambient
- Maximum Shut-Off Pressure Drop: 1 PSI. Std.

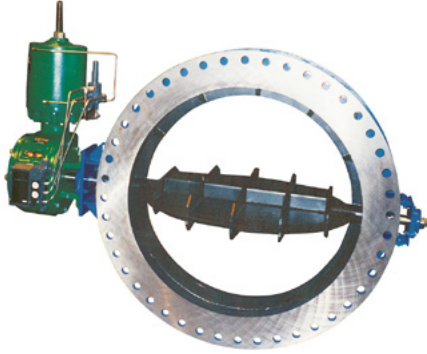


*2200 SERIES
ANSI FABRICATED WAFER*

The 2200 series fabricated wafer damper is constructed to fit between 125/150# ANSI flanges with sizes up to 72". Locating holes are provided to center damper in the pipeline. Flange stiffeners are provided depending on damper size & service conditions. Flange faces are standard mil finish. Machined/ serrated flanges can be provided as an option. Materials of construction are identical to the 2400 series. Damper can be supplied in all weldable materials.

- Sizes up to 72" (Larger and special sizes consult for quote)
- Maximum Operating Temperatures: Up to 2100°F standard, up to 2600°F are optional
- Maximum Static Pressure: 50 PSIG
- Blind end stuffing box and blind end outboard ball bearing available as an option.
- Standard shaft is stub type. Through shaft is available as an option.

ROUND BUTTERFLY DAMPERS



2300 SERIES
ANSI DRILLED - HEAVY DUTY

The 2300 series fabricated damper is constructed to bolt up to ANSI drilled flanges up to 144". Each flange is individually bolted to adjacent flange on duct/pipe. Flange stiffeners are provided depending on damper size and service conditions. Flange faces are standard mill finish. Machined/serrated flanges can be provided as an option. Materials of construction are identical to the 2400 series. Damper can be supplied in all weldable materials.

- Sizes up to 144" (Larger and special sizes consult for quote)
- Maximum Operating Temperature: Up to 850°F standard, up to 2600°F optional
- Maximum Static Pressure: 50 PSIG
- Flanged design. Rate flanges furnished for any ANSI drilling.
- Sizes 4" to 10" have Sch. 40 wall thickness.
- Blind end bearing standard on size 72" and larger.
- Standard shaft is stub type. Through shaft is available as an option.



2400 SERIES
DUCTWORK DRILLED -
HEAVY DUTY

The 2400 series consists of a fabricated carbon steel body furnished with flanges drilled for bolting to rolled angle companion flanges or with no drilling for thru bolting between 125/150 ANSI flanges (wafer) design, fabricated carbon steel disc, 304 stainless stub end shafts, graphitar lantern gland, lubricated stuffing boxes with alemite purge fittings, conventional swing thru seat design.

- Sizes to 144" (Larger and special sizes consult for quote)
- Flanges, Body, & Disc: Standard – Carbon Steel, Optional – Corten, Aluminum, Stainless (All 300 Series), Carpenter 20, Titanium & Tantalum, FRP Ctd. Stl. (All wetted pts.), Refractory lined
- Shaft: Standard – 304 SS, Optional – Stainless (All 300 Series), Aluminum & Aluminum -Br, Carpenter 20, Titanium & Tantalum, Plastic coated
- Bushings: Standard – Carbon (3000°F), Optional – Gr. -Br., 17-4 Ph, Stellite, TFE glass filled & Rulon
- Bearings (Outboard ball): Standard – 72" & above, Optional – Ball & roller (all sizes)
- Packing Follower: Standard – 304 SS, Optional – Same alloys as body
- Lantern Gland: Standard – Carbon, Optional – Same alloys as body
- Seat: Standard – Swing through, Optional – Scissor, Metal & Tadpole
- Maximum Operating Temperature: Standard 750°F, Optional 2300°F
- Maximum Static Pressure: Standard 25 PSIG, Optional 50 PSIG
- Maximum Shut-Off Pressure Drop: Standard 1 PSI, Optional 10 PSI
- Designed for bolting to duct work flanges

ROUND BUTTERFLY DAMPERS

The 2500 body is a durable, solid ring type body that is machined for accurate disc alignment. Standard body wall thicknesses vary according to static pressure and flange rating. The body is designed to with-stand stresses imposed upon it, through pipe flanges. Each disc is fabricated with precision machined and specially finished tolerances preventing shaft distortion and disc misalignment. Ample metal is provided in the hub to maintain rigidity and strength of the disc and its components. The shaft can be either one piece or stub shafts. Standard bushing materials are carbon/graphite or GR.GRZ. Bolting holes are located in valve body where optimum strength requirements provide maximum support to the total valve assembly. Two or four body holes are dimension according to USAS Code flange standards depending on valve size.



2500 SERIES
ANSI CLASS
"LUGGED" WAFER

- Sizes up to 72" (Larger and special sizes consult for quote)
- Body & Disc: Standard – Carbon, Optional – Corten, Aluminum, Stainless (All 300 Series), Carpenter 20, Titanium, Tantalum
- Flange Rating: Standard – 125/150, Optional – 300, 600, 900, 1500 & 2500# ANSI
- Shaft: Standard – 304 SS, Optional – Aluminum, 17-4 ph., Stainless (All 300 Series), Carpenter 20, Titanium, Tantalum
- Bushings: Standard – Carbon/Graphite, GR, BRZ, Optional – 300 Series SS, Stellite, TFE, Glass filled TFE
- Bearings (Outboard ball): Standard (none), Optional – Ball & roller
- Packing Follower: Standard – 304 SS, Optional – Same alloys as body
- Lantern Gland: Standard – Graphitar 304 SS, Optional – Same alloys as body
- Maximum Operating Temperature: Standard 750°F, Optional 3000°F
- Maximum Static Pressure: 50 PSIG (depending on size), Optional 2500
- Maximum Shut-Off Pressure Drop: Up to 20 PSI (depending on size), Optional 300 Max.



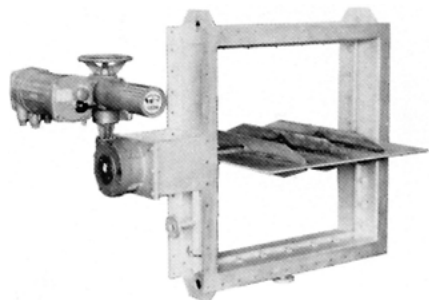
2700 SERIES
WELD-IN - HEAVY DUTY

The 2700 series fabricated weld end damper is constructed to be welded in between two duct or pipe sections. Body stiffeners are provided depending on damper size and service conditions. Two types of weld ends are offered. The standard 371/2° bevel and the stub end flange for ease of fit-up. Materials of construction are identical to the 2400 series. Damper can be supplied in all weldable materials.

- Sizes up to 144" (Larger and special sizes consult for quote)
- Maximum Operating Temperature: Standard 850°F, Optional 2600°F
- Maximum Static Pressure: 50 PSIG
- Sizes 4" to 10" have Sch. 40 wall thickness.
- Blind end bearing standard on size 72" and larger.
- Standard shaft is stub type. Through shaft is available as an option.
- Sizes 4" to 10" do not have stiffener rings on weld end (37-1/2 bevel).

SQUARE & RECTANGULAR BUTTERFLY DAMPERS

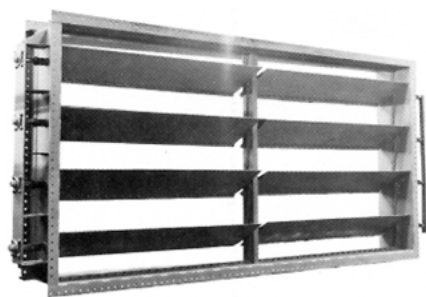
Our Shan-Rod branded fabricated dampers are designed to give long, trouble free service in all low pressure service applications. The versatility of fabricated dampers allows Shan-Rod to design the damper to your specifications as required by your systems. The 3200 series consist of a carbon steel body and flanges, single blade, inboard carbon bushings, stuffing box pwr end only w/Lube-Purge fitting both ends.



3200 SERIES
SINGLE BLADE - HEAVY DUTY

- Flanges, Body, Disc & Blades, both Solid & Airfoil: Standard – Carbon Steel, Optional – Corten, Aluminum, Aluminum Br, Stainless (All 300 Series) Carpenter 20, Titanium, Tantalum
- Shaft: Standard – 304 SS, Optional – Aluminum, Aluminum Br, Stainless (All 300 Series), Carpenter 20, Titanium, Tantalum
- Bushings: Standard – Carbon, Optional – Gr. Br. 17-4 Ph, 300 Series SS, Stellite, Glass TFE filled
- Bearings (Outboard ball): Standard (None), Optional – Ball & Roller (all sizes)
- Packing Follower: Standard – 304, Optional – Same alloys as body
- Lantern Gland: Standard – Graphitar, Optional – Same alloys as body, 305 SS
- Packing Gland: Standard – 304
- Maximum Operating Temperature: Standard – 750°F, Optional – 3000°F
- Maximum Static Pressure: Standard – 5 PSIG, Optional – Contact for Options
- Maximum Shut-Off Pressure Drop: Standard – 1 PSI, Optional – Contact for Options

Our Shan-Rod branded fabricated dampers are designed to give long, trouble free service in all low pressure service applications. The versatility of fabricated dampers allows Shan-Rod to design the damper to your specifications as required by your systems. The 3400 series consist of a design similar to our 3200 Series except with a Multilouvre Solid or Airfoil, outboard ball bearings and packing glands both ends.



3400 SERIES
MULTI-LOUVER - HEAVY DUTY

- Flanges, Body, Disc & Blades, both Solid & Airfoil: Standard – Carbon Steel, Optional – Corten, Aluminum, Aluminum Br, Stainless (All 300 Series) Carpenter 20, Titanium, Tantalum
- Shaft: Standard – Carbon Steel, Optional – Aluminum, Aluminum Br, Stainless (All 300 Series), Carpenter 20, Titanium, Tantalum
- Bearings (Outboard ball): Standard Ball & Roller
- Packing Follower: Standard – 304, Optional – Same alloys as body
- Lantern Gland: Standard – Graphitar, Optional – Same alloys as body, 305 SS
- Packing Gland: Standard – 304
- Maximum Operating Temperature: Standard – 750°F, Optional – 3000°F
- Maximum Static Pressure: Standard – 5 PSIG, Optional – Contact for Options
- Maximum Shut-Off Pressure Drop: Standard – 1 PSI, Optional – Contact for Options

BUBBLE TIGHT/ZERO LEAKAGE BUTTERFLY VALVES

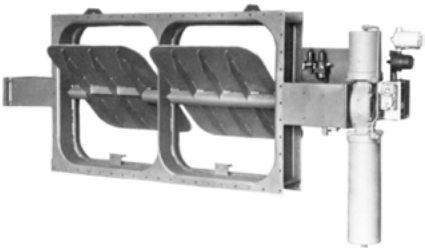
Our 4100 series features a double disc for redundant bubble tight (optional) shut-off in the event of a seal being damaged, airfoil reinforced disc (optional), an easy replacement of seal on sizes 48" and larger without removing the valve from the line and a positive system isolation in positive or negative pressure systems. Various actuation are available including pneumatic, electric, hydraulic and manual. The 4100 series can be used with nuclear safety and non-safety related applications for bubble tight shut-off.



*4100 SERIES
EV-O-SEAL*

- Flanges, Body, Disc: Standard – Carbon Steel, Optional – Corten, Aluminum, Aluminum Br., Stainless (All 300 Series), Carpenter 20, Titanium, Tantalum, and any weldable alloy.
- Shaft: Standard – 304 SS, Optional – Aluminum, Aluminum Br., Stainless (All 300 Series), Carpenter 20, Titanium, Tantalum
- Bushings: Standard – Graphite, Bronze, Graphitar, Optional – 17-4 Ph, 300 Series SS, Stellite, Glass TFE filled
- Bearings (Outboard ball): Standard – Standard Power End, Optional – Ball & roller – all sizes
- Packing Follower: Standard 304, Optional – Same alloys as body
- Lantern Gland: Standard Carbon, Optional – Same alloys as body
- O-Ring: Standard E.P.D.M, Optional – Neoprene, Teflon, Silicone, Viton, Buna 'N'
- Maximum Operating Temperature: Standard 300°F, Optional 500°F
- Maximum Static Pressure: Standard 50 PSIG, Optional 600 PSIG
- Maximum Shut-Off Pressure Drop: Standard 25 PSI, Optional 50 PSI
- Class V leakage

Our 4300 series features a bubble tight shut-off with combined scissors/inflatable seat, double disc for redundant bubble tight shut-off in the event of seal damage, airfoil reinforced disc (optional), an easy replacement of seal on sizes 36" and larger without removing valve from the line, positive seal inflation when disc in closed position, and deflation before disc opening and bubble T.S.O. service. Various actuation are available including pneumatic, electric, hydraulic and manual. Lower actuator torque due to zero interference on opening and closing. The 4300 series can be used with nuclear safety and non-safety related applications for bubble tight shut-off.

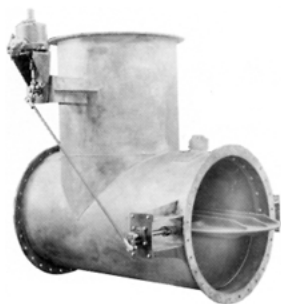


*4300 SERIES
FLATE-O-SEAL*

- Flanges, Body, Disc: Standard – Carbon Steel, Optional – Corten, Aluminum, Aluminum Br., Stainless (All 300 Series), Carpenter 20, Titanium, Tantalum, and any weldable alloy.
- Shaft: Standard – 304 SS, Optional – Aluminum, Aluminum Br., Stainless (All 300 Series), Carpenter 20, Titanium, Tantalum
- Bushings: Standard – Carbon, Optional – Gr. Br., 17-4 Ph, 300 Series SS, Stellite, Glass TFE filled
- Bearings (Outboard ball): Standard – Power End, Optional – Ball & roller – all sizes
- Packing Follower: Standard 304, Optional – Same alloys as body
- Lantern Gland: Standard Carbon, Optional – Same alloys as body
- Seat: Standard – E.P.D.M & Neoprene, Optional – Viton
- Maximum Operating Temperature: Standard 300°F, Optional 400°F
- Maximum Static Pressure: Standard 25 PSIG, Optional 300 PSIG
- Maximum Shut-Off Pressure Drop: Standard 1 PSI, Optional 50 PSI
- No-wear seat design
- No seating torque required

DIVERTERS

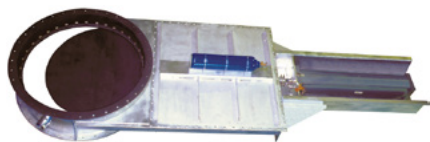
Our Var-E-Tee™ dampers are designed to give long, trouble free service in all low pressure service applications. The versatility of the fabricated Tee and Damper allows to design to your specifications as required by your systems.



*2600 SERIES
DIVERTERS*

- Sizes up to 96" (Larger and special sizes consult for quote)
- Flanges, Body & Disc: Standard – Carbon Steel, Optional – Corten, Aluminum, Stainless (All 300 Series), Carpenter 20, Titanium, Tantalum, Refractory Lined Body
- Shaft: Standard – 304 SS, Optional – Aluminum, Aluminum -Br, Stainless (All 300 Series), Carpenter 20, Titanium, Tantalum
- Bushings: Standard – Carbon (3000°F), Optional – Gr. Br. Stainless (All 300 Series), Stellite, TFE, Glass Filled TFE
- Bearings (Outboard ball): Standard – 72" & above (Std. w/ seat), Optional – Ball & roller (all sizes)
- Packing Follower: Standard – 304, Optional – Same alloys as body
- Lantern Gland: Standard – Carbon, Optional – Same alloys as body
- Seat: Standard – Swing-through, Optional – Scissor, Metal & Tadpole
- Maximum Operating Temperature: Standard 750°F, Optional 2100°F
- Maximum Static Pressure: Standard 5 PSIG, Optional 150 PSIG
- Maximum Shut-Off Pressure Drop: Standard 1 PSI, Optional 50 PSI
- ANSI drilled flanges with various thicknesses available.
- Outboard bearing on blind end available.
- Flange thickness based on size and service.
- Rolled angle flanges available on medium duty low temperature, low pressure applications.
- Flanged or weld ends.

GATE VALVES



*5000 SERIES
BONNETED & BONNETLESS
GATE VALVE*



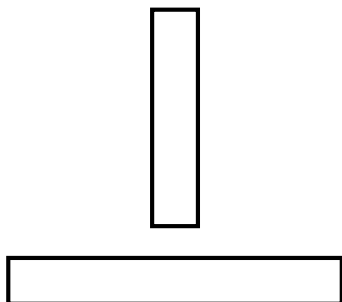
*5100 SERIES
BONNETED & BONNETLESS
GATE VALVE*

Slide Gate dampers include the 5000 Series (Bonnet) and the 5100 Series (Bonnetless). We offer our products in various shapes which include square, rectangular and round. Slide Gates are designed mainly for on/off services and are mostly used for shut-off. Refractory Lined Gate valves are available for high temperature applications. Gates can be supplied with or without actuation. Configurations include Pneumatic, Electric, Hydraulic and Electro-Hydraulic. The customer has an option of supplying their own actuation and we can manufacture shaft adapter and a mounting plate. If requested, we can mount and test per customer needs. Fail safe systems are optional on some applications.

- Sizes range from 6-72" (Larger and special sizes consult for quote)
- Constructed Metal: Standard – Carbon Steel, Optional – Corten, Aluminum, Aluminum Br, Stainless (All 300 Series) Carpenter 20, Titanium, Tantalum

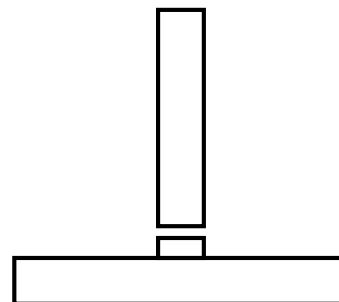
VALVE SEAT OPTIONS

**Leakage based on damper capacity*



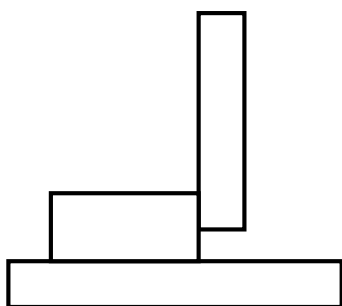
CONVENTIONAL SEAT

Swing-thru design,
*4-5% leakage



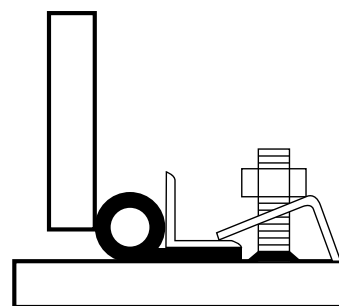
SCISSOR SEAT

Swing-thru design,
approx. *1-2% leakage



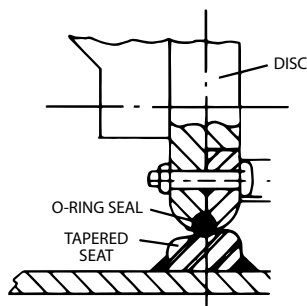
METAL SEAT

Materials same as body -
approx. *1% leakage



TADPOLE SEAT

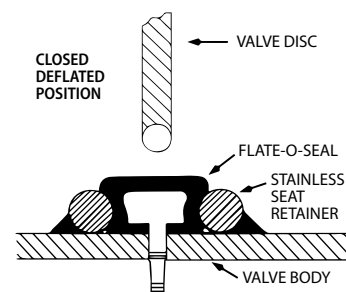
Material furnished varies with service. Temp. to 1800°F, approx. *1/4 of 1% leakage



EV-O-SEAL

Various gasket options including:
- Buna-N (200°F)
- EPDM (325°F)
- Viton (400°F)
- Teflon (450°F)

Maximum Shut-Off Pressure Drop: 65 PSI



FLATE-O-SEAL SEAT

Various gasket options including:
- Neoprene (200°F)
- EPDM (325°F)
- Viton (400°F)

Maximum Shut-Off Pressure Drop: 65 PSI