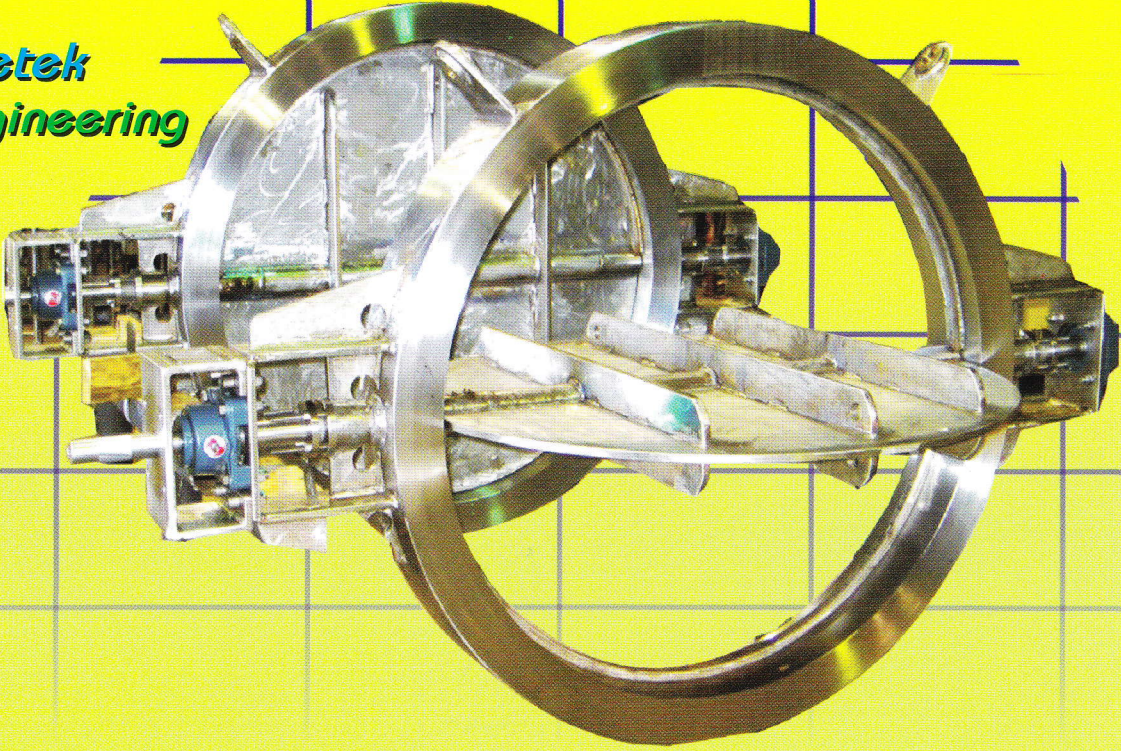
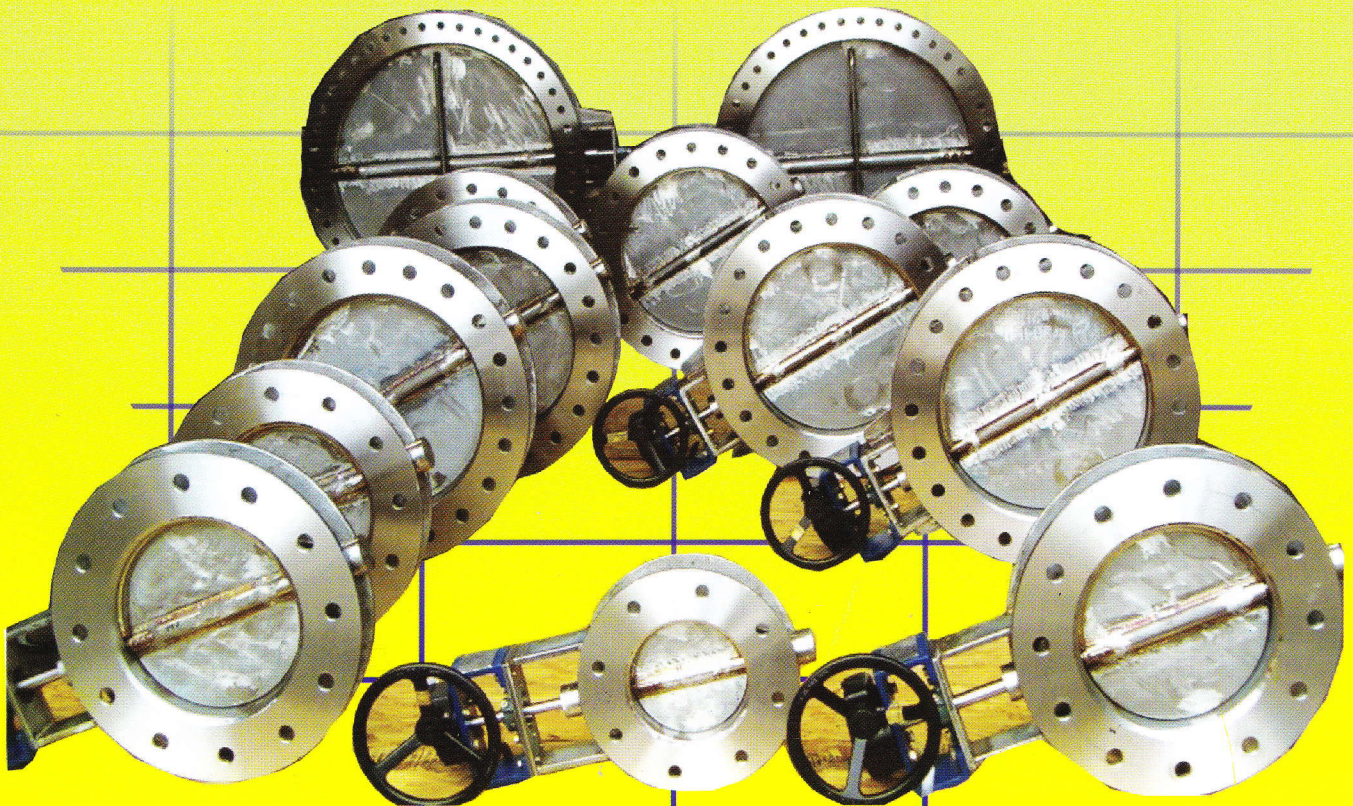




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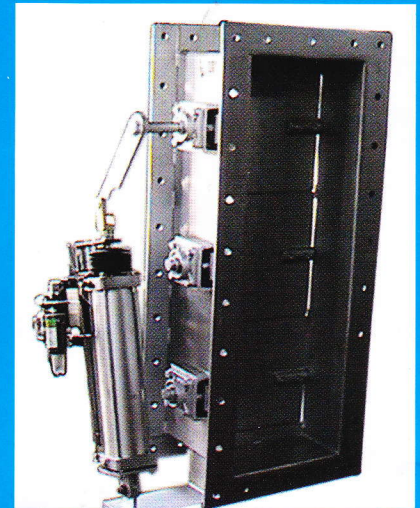
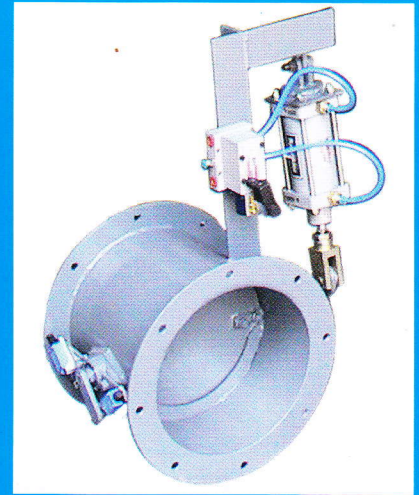


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Pneumatic Cylinder operated Flanged end Butterfly Damper / Valves ON - OFF application

Type	: Butterfly Single Flap
Service	: Air Handling
Max working Temperature	: 200°C
Max ambient Temperature	: 60°C
Max working Pressure	: 1000 mm WC
Leakage Efficiency	: 99 %
Painting	: Aluminum
Design	
Type	: Flanged End
Size	: 3"- 4000 mm
Face to Face Distance	: As per drawing
Flange Outer diameter	: As per drawing
Bolt Hole PCD	: As per drawing
No. of holes	: As per Drawing
Bolt Hole Dia.	: As per drawing
Hole location	: Off center equispaced
Material of construction	
Body & Flange	: MS/SS304
Disc / Flap	: MS/SS304
Shaft	: EN-8/SS304
Gland Pkg	: Non - Asbestos
Bearing Type	: Ball Bearing / Bush Brg
Position indicator	: Mechanical Position indicator
Accessories (Optional)	
Companion Flanges	: MS/SS304
Mounting Hardware	: Standard /SS/ None
Gasket	: Standard
Limit Switch Box	: ½ Nos switches with SPDT Contact, Mounted on the Non Drive end of the damper.
Operation	
Single acting / Double acting pneumatic cylinders	



Outlet dampers for centrifugal fans

Motorised Multilouver dampers with direct mounted actuator.

These are Heavy duty Rectangular dampers having multiple louvers (flaps) which operate in unison to offer a smooth flow control of Blower Air . These are typically suitable for Industrial applications and mounted in ducts.

These units are with a sturdy sheet metal construction suitable to handle large quantities of Air and are mounted at the Suction or delivery side of combustion air blowers.

The operating actuators are directly coupled to the Damper shaft. This eliminates the linkage arrangement and thus the relatively tedious linkage settings. The end limits can be set by means of adjustable limit switches inside the actuator.



Features :

Sturdy Sheet Metal body. Louvers are provided with pressed ribs to provide adequate stiffness. The shafts of all the Multilouvers are supported between Ball Bearing at both the ends.

This reduces the frictional torque required to be overcome by the actuators and ensures a smooth operation.

The Ball bearings are enclosed type and ensure that no lubrication is required during its lifetime.

Actuators with suitable torque and Operating time is provided as an actuator for achieving the desired control over 0 to 90 degree travel of the motor.

Actuator is provided with either 4-20mA, 2-10V dc or SPDT floating control input. Actuator is available in 230 or 110 VAC power supply. Actuator is directly mounted on the Multilouver damper shaft. Actuators have an IP-65 degree protection hence suitable for weatherproof applications.

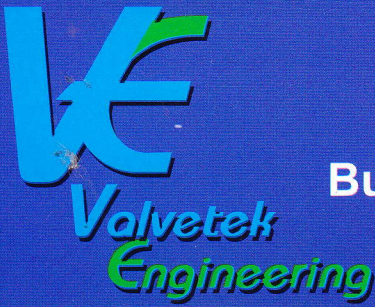
Position Feedback available in 4-20mA or 2-10Vdc (field configurable) for the models with 4-20mA or 2-10Vdc control input.

Auto declutchable Manual Handwheel is provided for operating the damper by in event of power failure. Visual indicator provided on the actuator to indicate FULL OPEN/ FULL CLOSE position.

Dampers in SS construction available on request.

Specifications :

Type	: Rectangular Multilouver
Service	: Air Handling
Sizes	: As per user specifications
Flange Drilling	: To be done by the user else to be specified prior to ordering
Max ambient temperature	: 60°C
Max working Pressure	: 1000 mmWC
Leakage efficiency	: 99%
Body & Flange	: Carbon Steel
Louvers	: Carbon Steel
Shaft	: EN - 8
Painting	: Aluminum paint.
Actuator :	
Type	: Direct mounted
Power Supply	: 230VAC/110VAC/440V AC
Control Input	: 4-20mA ,2-10Vdc/SPDT
Operation	: Directly coupled to damper shaft.
Painting	: Aluminum paint.
	: MOC in SS304 available on request.
	: Higher sizes are available in direct mounted actuator versions.
	: Manual knob operation for specific model instead of hand wheel.



Pneumatic Cylinder operated Flanged end Butterfly Dampers / Valves ON-OFF application

These are Low cost Pneumatic cylinder operated dampers which are intended to be used for applications only. These are suitable for Combustion/Blower Air handling. The pneumatic cylinder is double acting/single acting type based on the applications of user and is provided along with the standard accessories viz. Solenoid valve, flow control valve in Close stroke, pneumatic tubing and tubing accessories.

Features :

Incorporates Centric shaft design, Light weight sheet metal construction, Ball bearings for sizes greater than 150NB, Asbestos gland packing, Pneumatic Cylinder with suitable stroke and bore to deliver the required torque is provided on the damper body.. Pneumatic cylinder either single or Double acting Adjustable tie rod type linkage ensures easy and proper zero flow setting of the damper flap. Standard accessories include the Solenoid valve, Flow control valve in Close direction. Flexible air tubes and tubing accessories. The flow control valve provided in the close direction ensure impactless closing thereby improving the life of the moving 2 components.

Thus the operation of the damper is Fast Opening Slow closing. The closing time of the damper can be adjusted by adjusting the flow control valve. Optionally a flow control valve can also be provided for the Open direction thus enabling the user to control the opening time of the damper as well. Ball Bearings are enclosed type and require no lubrication during its lifetime. High temperature versions are provided with SS disc and shaft to ensure longer life. The entire disassembly of the damper including Pneumatic cylinder and accessories, linkages, the shaft Bearings and disc is possible thereby providing a very easy maintenance and 3 repair if required. High temperature versions are painted in suitable KR grade aluminum paint to ensure paint durability. Dial type Mechanical position indicator with a 0 to 100% scale is provided for monitoring and setting the damper position at the time of installation and commissioning. Damper shaft mounted Limit switch box can be given additionally for correct information on damper position (Open/Close)

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