

METROFLEX



Air & Flue Gas Control

An ISO 9001:2015 Company

INTRODUCTION:

METROFLEX INDUSTRIES LIMITED is the engineering operating arm of the Metroflex Group. The company undertakes both supply and contracting work across its entire product range for its customers in Europe, South Asia, the Middle East and South-East Asia.

Originally established as a joint venture with the participation of Dutch and UK technology partners, Metroflex is now an independent company with a wealth of legacy drawings and engineering designs having integrated facilities for Design, Manufacturing, Installation, After Sales Servicing and Spare support services.

WHY METROFLEX:

What really sets our line of products and services apart from the others is the unique mix of technology, innovation and quality. We offer the most advanced Clean Flow solutions tailor-made to the specific requirements of our customers. Our very existence is built upon own in house research and development, ensuring that every detail and function is carefully tested and reviewed to provide the highest possible performance.

We take great pride in our industry-leading product portfolio.



PRODUCTS & SERVICES:

Blessed with all-new manufacturing technology & process, we are capable of producing a wide range of products for our customers with quality assurance in every manner. We ensure to achieve optimum customer satisfaction with the provision of service in the following products.

GUILLOTINE DAMPER

The Guillotine Damper is the industry's preferred choice for flow isolation requirements as they are ideally suited for On-Off duty applications. Guillotines are supplied with multiple options for sealing arrangement and accessories like seal air fan depending on the efficiency required. A variety of drive options and materials of construction are employed to customize as per application requirements.

Product Overview	
Size Range	Up to Duct areas of 100 Sq. mtr
Pressure Rating	Up to 3000 mm WC
Temperature Range	Upto 800°C





MULTILOUVER DAMPER

Multi-louvre dampers are designed to provide a guaranteed sealing efficiency of 99.9%, or better, on the cross-sectional area. They incorporate various flexible metallic sealing systems made of austenitic stainless steel or high nickel alloys. Louvre Dampers can also be provided with a double row of seals ensuring 100% leak tightness with purge air. Units can be supplied for both circular and rectangular ducts with various options for blade profiles and bearing arrangements.

Product Overview

Size Range	Up to Duct areas of 100 Sq. mtr
Pressure Rating	Up to 2000 mm WC
Temperature Range	650°C

BUTTERFLY DAMPER

Versatile in both isolation and modulation duty, featured with the Metroflex heavy-duty linkage arrangement and flex seat sealing, make this the most reliable and rugged product available in the market today.



Product Overview

Size Range	6ft to 20ft
Pressure Rating	Up to 2000 mm WC
Temperature Range	650°C



POPPET DAMPER

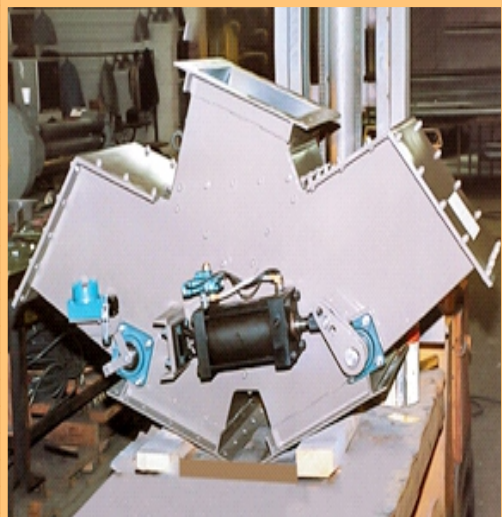
Metroflex Poppet dampers are equipped with a Duplex "Leaf-seal type" arrangement ensuring 99.9% isolation even without a Seal Air system. Drive options are Electric (with Linear Actuator), or pneumatic (by cylinder). Optionally provided with an internal heating arrangement to prevent the build-up of sticky flow media. The quick shut/open feature is available on demand.

Product Overview

Size Range	Up to Duct areas of 10 Sq. mtr
Pressure Rating	Up to 2000 mm WC
Temperature Range	650°C

3-WAY GATE

A three-way diverter gate valve is used for selecting one out of two outlet ports. The flow through these valves is essentially a gravity flow and the position of the diverter flap decides which of the two outlet ports will be active. Diverter valves are designed to direct product flow outlets of storage bins, silo conveyors, gravity-flow chutes and other discharge points handling powders, granules, grains and other bulk solids. These valves are available in deflector or diverter types, with three- positional control on the diverter if required to split the flow. Metroflex 3-way gates are heavy duty constructions also available in BQ plate, abrasion resistant steel, special steels like Creusabro & TISCRAI. Liners are provided where demanded by the application.



SLIDE GATE

These heavy-duty constructions are extensively used in material handling applications. They isolate or divert solid materials such as clinker dust and coal ash. Typically lined with or fabricated out of abrasion-resistant steels. Liner plates can be installed with a replaceability feature. Electric Drive or manual operation is typical for very close tolerances, fully machined blades enable 100% cross blade isolation, even under heavy loads.

Product Overview

Size Range

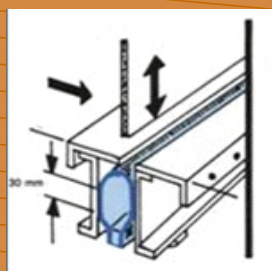
Upto 20 sq. mtr.



Product Overview

Size Range	Upto 5 Sq. mtr
Temperature Range	400°C

GLANDULAR SPADE VALVE



Glandular Spade Valve provides complete Isolation of auxiliary equipments, even against pressure excursions, allowing safe access for on load inspection or maintenance. The GSV consists of a steel plate sliding between the glandular sealing system. The GSV sealing systems are designed in half-bulb or full-bulb configurations along with sophisticated screw drive system.



Product Overview

Size Range	Upto 100 sq. mtr.
Pressure Range	Upto 2000 mm WC
Temperature Range	650°C

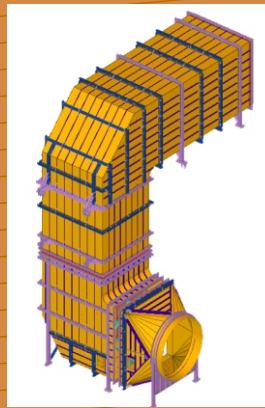
FLAP DAMPERS

Flap Dampers and gas diverters are deployed for regulating and shutting off flue gas flows and are designed in circular/rectangular forms to meet different cross-sectional and functional requirements. It is a modular structure that is developed to facilitate simple dismantling and transportation of the individual modular parts after trial run at the factory. The drive options are pneumatic, hydraulic or electric.



DUCTING & STRUCTURES

Metroflex manufactures customized ducts using high quality materials in accordance with the client's requirements. Materials include Carbon steel, ASTM A 387, stainless steels & BQ plate. Both internally insulated & ducts with external cladding can be provided. A fully equipped fabrication facility allows structural constructions to be supplied for trusses, buttress, support structures and general purposes.



QUALITY ASSURANCE:

Achieving true quality in all our services is of prime importance to our company. With the strong support endowed by our team of professionals, we always strive for improving our skills, systems, procedures and working systematically to ensure the highest level of quality services to our customers. To achieve consistency while maintaining sustainability in our work methodology, we measure our quality based on performance, problems addressed & development of new innovative practices to be communicated to our esteemed customers.

This helps us in keeping a track of our anomalies while facilitating operational excellence. The ISO 9001 quality program is strictly implemented in every aspect of company operations, which enables compliance to specific industry codes: AWS, ASME, ANSI, AISI, EJMA, FSA and approval third party agencies such as Lloyds, Uhde, DNV, SGS, TUV, etc.



DESIGN & ENGINEERING

A fully staffed design office provides the base for engineering design for custom application. Facilities include both 2D & 3D rendering, CFD simulation and Solid modelling .



FULL RANGE OF SERVICES:

METROFLEX manufactures to the highest consistent quality standards, technically advanced, world-class pieces of equipment with economics provided by Indian manufacturing. A comprehensive solution to the Customers' field service requirements is provided by the after-sales team. Engineer on-call provides supervision services during installation and commissioning and responds during emergency shut-down for trouble shooting. A full-fledged site erection team for turnkey execution is maintained for field activities from concept to final commissioning.

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