Frigate offers a wide range of damper products to suit many applications. Each contract is reviewed in accordance with our ISO 9001:2000 accredited quality system to ensure that every product is designed to meet the client’s specific requirements and operating conditions. All products are backed up with comprehensive installation, operating & maintenance instructions and manufacturing / QA data books. All dampers receive a full inspection and functional test under client witness prior to despatch. We have various instruments to assist with inspection and test activities including a digital 20T load cell, digital elcometer, digital manometer, digital loop calibrator, digital temperature probe and various calibrated measuring equipment. We are also able to offer a full hot test facility. This involves heating the internals of the damper to temperatures of up to 600 Deg C whilst carrying out functional testing. Internal temperatures are continually monitored using a serious of high temperature probes.

Butterfly dampers provide a simple and cost effective method of control and isolation. Stainless steel dampers for high temperature applications are available in a variety of sizes. Various sealing arrangements can be used to provide the correct efficiency for your application. Sealing efficiency can be increased to 100% with the addition of twin seals and a sealing air fan. Butterfly dampers can be actuated pneumatically, electrically or manually by a simple hand lever or reduction gearbox.

Multilouvre dampers are used in a variety of industries and applications including Fossil Fuelled Power Generation, Tunnel Ventilation, Gas Turbine / HRSG and FGD Plants. Temperatures can be accommodated from (-) 40 Deg C to in excess of 600 Deg C. Pressure ratings can be in excess of 1500mm WG. Multilouvre dampers can be supplied in various sizes from approx 1 m² up to approx 60 m² and will form an effective method of controlling and isolating most duct media. Dampers for FGD systems can be manufactured in a range of materials including carbon steel, stainless steels and exotic alloys such as C276. As an alternative to a flap diverter, multilouvre dampers can be built into a T-Duct section and linked to provide an effective inlet/bypass solution. These can be incorporated with a guillotine to provide a fully integrated inlet/bypass/isolation solution. Seal air systems can be added to provide 100% sealing efficiency. Various sealing arrangements can be incorporated, from simple metal/metal ledge seals to full twin flexible Inconel seals.

Flap Dampers allow the user to control the flow of TEG to the HRSG and to positively isolate the HRSG so that routine maintenance can be carried out during normal operating periods. Each Flap damper is custom designed to suit the exact operational requirements in accordance with the relevant specification. Flap dampers (diverters) form an integral part of numerous land based diesel and gas turbine CHP plants and offshore HRSG installations. Actuation can be electric, electro-hydraulic or pneumatic, with modulation and fail-safe facilities available as an option. Sealing efficiencies range from 99% to 100% with a seal air fan.

Guillotine dampers and blanking plates can be used in any application where a positive isolation is required for routine maintenance and/or entry to a duct behind a media source. Actuation can be manual, pneumatic, hydraulic or electric, with various designs to suit all budgets and specifications.