

## NORAM BUTTERFLY GAS DAMPERS





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Swing-Type Machined Bar Seal Disk Blade



Flange Mounted External Bearings. Packing Gland and Lantern Ring Design c/w Air Purge



Quality Manufacturing and Shop Tested Product

## **NORAM Butterfly Gas**

**Damper** features plain or beveled or flange end connections in carbon steel, stainless steel, Hastalloys, and NORAM SX® alloy materials.



NORAM offers butterfly dampers for low pressure, high temperature, erosive and corrosive services in new or existing sulfuric acid plants.

Each damper is custom engineered to customer requirements. NORAM offer manual drive operation as well as comprehensive packages for actuation and control.



**Manual Gear Operator** 



**Solid Large Diameter Shaft** 



**External Position Indicator** 

## Ask about the products and services NORAM supplies to the sulfuric acid industry:

### NORAM PLANTS, PROCESSES, SYSTEMS, AND PROCESS EQUIPMENT

NORAM PLANT UPGRADE AND DEBOTTLENECKING ENGINEERING STUDIES

NORAM/CPPE HYBRID SULFURIC ACID PROCESS (HSAP)

NORAM CLEAN START™ PROCESS

**NORAM PLANT PREHEATING SYSTEMS** 

NORAM'S TURBOSCRUBBER FOR GAS SCRUBBING

NORAM STAINLESS STEEL CATALYTIC CONVERTERS

NORAM RF™ RADIAL FLOW GAS-TO-GAS HEAT EXCHANGERS

NORAM SF™ SPLIT FLOW GAS-TO-GAS HEAT EXCHANGERS

**NORAM BRICK-LINED ACID TOWERS** 

**NORAM SULFUR & SPENT ACID BURNERS** 

**NORAM CELLCHEM SULFUR BURNERS** 

NORAM ANODICALLY PROTECTED ACID COOLERS

NORAM SX™ ACID COOLERS

NORAM SX™ TOWERS AND NORAM SX™ PUMP TANKS

### NORAM EQUIPMENT INTERNALS, PERIPHERALS AND ANCILLARY EQUIPMENT

NORAM HP™ SADDLE PACKING FOR ACID TOWERS

NORAM SMART™ ACID DISTRIBUTORS FOR ACID TOWERS

NORAM TROUGH ACID DISTRIBUTORS FOR ACID TOWERS

NORAM SX™ CHIPGUARD CG™ ACID STRAINER

**NORAM ENTRAINMENT MITIGATION DEVICE (EMD)** 

**NORAM ACID DILUTION SYSTEMS** 

NORAM SX™ MATERIAL

NORAM SX™ ACID DISTRIBUTORS

NORAM SX™ PIPING

NORAM SX™ VALVES

**NORAM GAS DUCTING** 

**NORAM DAMPER** 

**NORAM SULFUR GUNS** 

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