# NV CONTROL SYSTEM

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# TECHNICAL DATASHEET

# CIRCULAR INDUSTRIAL DAMPERS

## Product Overview

- **Product Category:** Heavy-Duty Industrial Dampers
- **Damper Types:** Heavy-Duty Multi-Louver / Butterfly / Guillotine / Non-Return (NRD)
- **Application:** Isolation & Flow Control for HVAC, Power Plants, Cement Plants, Steel Plants, and Air Handling Units (AHU)
- **Operation:** Manual, Electric Actuated, or Pneumatic Actuated

## Technical Specifications

### General Design & Construction

| Parameter | Specification |
|---|---|
| **Size / Dimension Range** | Dia 150 mm to Dia3000 mm (Custom dimensions available upon request) |

| Parameter | Specification |
|---|---|
| **Leakage Class** | Class II / Class III / Class IV (Up to 99.9% tight shut-off with suitable sealing) |
| **Design Temperature** | -20°C to +400°C (High-temp options up to 750°C available) |
| **Operating Pressure** | Up to 1000 mm WC (Custom high-pressure ratings available) |
| **Frame Material** | Carbon Steel (IS 2062) / Stainless Steel (SS304 / SS316 / SS316L) |
| **Louver / Blade Material** | IS 2062 / SS304 / SS316 / Corten Steel |
| **Shaft Material** | EN-8 / SS304 / SS316 / SS410 |
| **Sealing Material** | Flexible SS316 Metallic Seals / EPDM / Silicone / Graphite |

## Shaft, Bearings & Seals

| Parameter | Specification |
|---|---|
| **Bearing Type** | Self-aligning Pillow Block Bearings / Sintered Bronze / High-Temp Bush Bearings |
| **Shaft Sealing** | Teflon (PTFE) Packing Gland / Flexible Graphite Packing |
| **Linkage Mechanism** | Heavy-Duty External Linkage with Spherical Rod Ends |

## Actuation & Control Options

| Parameter | Specification |
|---|---|
| **Manual Operation** | Hand Lever / Worm Gearbox with Handwheel |
| **Electric Actuation** | Electric Rotary Actuator (ON/OFF or Modulating 4-20mA / 0-10V DC) |

| Parameter | Specification |
|---|---|
| **Pneumatic Actuation** | Double Acting / Single Acting (Spring Return) Pneumatic Cylinder |
| **Limit Switches** | 2 Nos. SPDT / DPDT Travel Limit Switches (IP65 / IP67) |
| **Position Feedback** | 4-20 mA Transmitter / Potentiometer Feedback |

## Surface Protection & Painting

| Parameter | Specification |
|---|---|
| **Surface Preparation** | Blast cleaning to Sa 2.5 standard |
| **Coating / Paint Finish** | High-Temp Heat Resistant Paint / Synthetic Enamel / Epoxy Primer & Finish |

**Note:** Dimensions, pressure ratings, and material grades can be customized based on specific ducting layouts, medium (air/flue gas), and operating conditions.

Would you like to specify the damper type (e.g., Multi-Louver, Butterfly, Guillotine) or specific dimensions to customize this further?