

Full-Service Provider of Complete Industrial Flue Gas Valve Solutions
Stable Airflow Control · Precision Engineering for Long-term Operation



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SENV

Flue Gas Butterfly Valve

Product Selection Manual

- Self-developed high-temp valves for full-range emission reduction
- Heat-resistant, low leakage; full QC for reliable operation
- One-stop flue gas switching solutions for diverse scenarios



SE-CORP 东南股份

STOCK CODE 832124

Company Introduction

Nanjing Southeast Industrial Equipment Co., Ltd. (Stock Code: 832124) was founded in 2003, with a 60-mu production facility. It is certified as a national high-tech enterprise and Jiangsu provincial specialized & sophisticated SME.

We deliver supporting products for global exhaust gas treatment systems, with standardized production bases and full testing infrastructure. Core components including valve bodies and pneumatic actuators are produced internally. Our full-chain quality control system from raw material to finished product ensures stable and safe operation of all deliverables.

We conduct independent R&D of high-temperature flue gas butterfly valves, provide customized OEM service and bulk supply for global renowned clients. Products have undergone long-term field testing under complex working conditions to build solid market credibility worldwide.

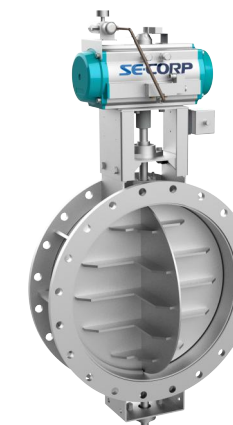
Our SENV series valves have obtained type approvals from multiple international classification societies for marine and land flue gas pipelines. Deployed on seagoing vessels, generator sets and industrial furnaces, they supply reliable pipeline switching solutions for global flue gas emission reduction projects.



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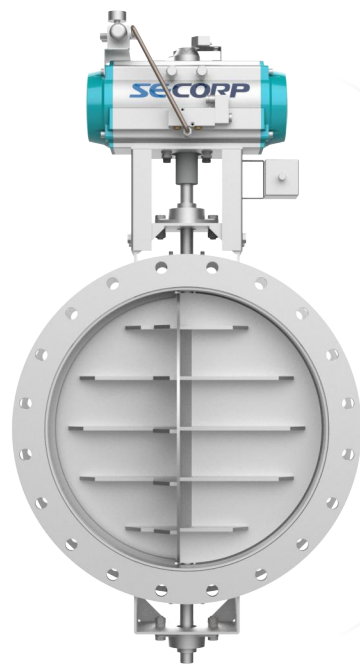
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SINGLE TYPE DAMPER

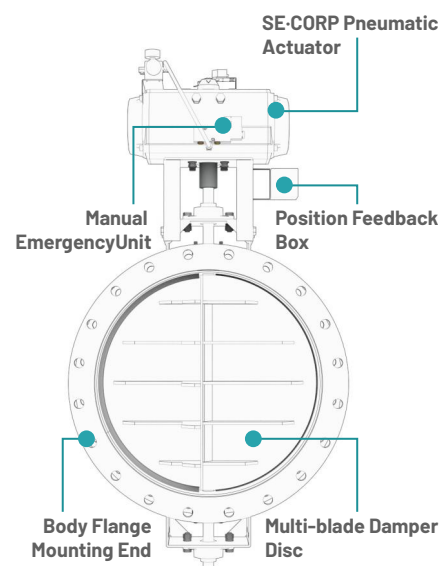
The SENV single type damper is a standalone shutoff valve fitted with SE-CORP pneumatic actuator and built-in multi-layer louver blades. Rated for continuous service at flue gas temperatures up to 550°C, it enables full opening / full closing isolation for individual pipelines. The full product range has obtained type approval from multiple international classification societies, with dual pneumatic/manual operation for backup safety. Featuring compact structure and low flow resistance, this damper is widely used for high-temperature flue gas pipelines in marine engine exhaust systems and land-based power units.



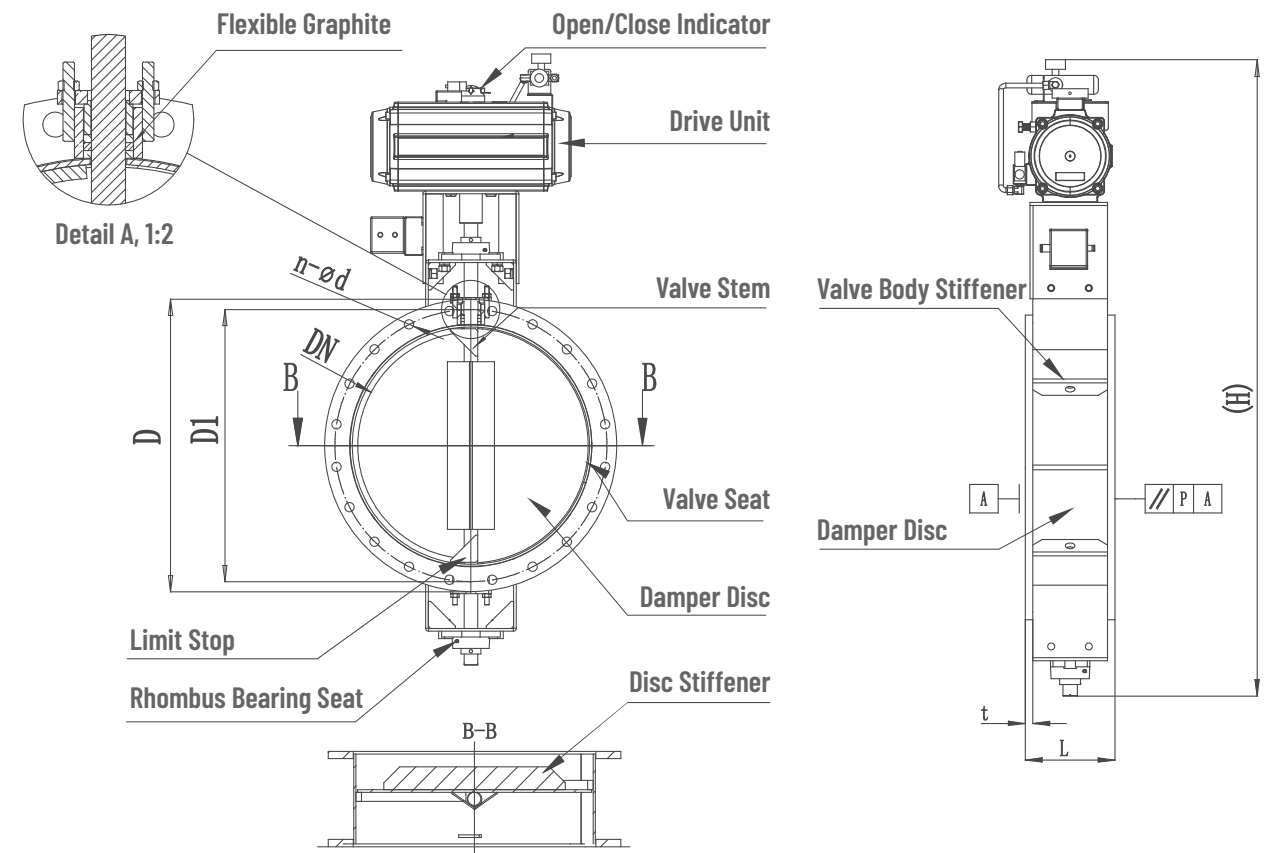
- Multi-layer louver structure: lowers local turbulence & impact loss
- Monoblock integrated construction: improves valve body rigidity and resistance to thermal deformation
- Low-leakage sealing design: suited for prolonged high-temperature flue gas service

MAIN TECHNICAL PERFORMANCE

Item	Specification
Applicable Medium	High-temperature flue gas for marine & land-based units
Long-term Operating Temperature	≤550°C
Actuation Configuration	SE-CORP pneumatic actuator + manual emergency unit
Air Supply Pressure	0.5–0.8MPa clean compressed air
Valve Position Feedback	DC24V remote feedback
Ingress Protection	IP56
Mounting Orientation	Unrestricted
Nominal Diameter Range	DN300-DN1200



OVERALL DIMENSION & CONNECTION SIZE



MAIN DIMENSIONS & WEIGHT

Model	Seat Bore DN mm	Flange Outer Diameter D mm	Bolt Circle Diameter D1 mm	Bolt Quantity & Diameter n-Φd mm	Length L mm	Height H mm	Thickness t mm	Parallelism P mm	Weight Kg	Flange Standard	Flange Size	Flange Material
SENV300	293	440	395	12-Φ22	170	1090	16	1.5	77	CB/T 3766-2014	DN300 AS	Q245R/304/316
SENV350	347	490	445	12-Φ22	170	1140	16	1.5	85		DN350 AS	Q245R/304/316
SENV400	394	540	495	16-Φ22	190	1200	16	1.5	93		DN400 AS	Q245R/304/316
SENV450	451	595	550	16-Φ22	190	1250	16	1.5	101		DN450 AS	Q245R/304/316
SENV500	501	645	600	20-Φ22	190	1295	16	1.5	108		DN500 AS	Q245R/304/316
SENV550	528	660	620	16-Φ23	210	1433	16	1.5	116		DN550 AJI	Q245R/304/316
SENV600	578	755	705	20-Φ26	210	1405	20	1.5	124		DN600 AS	Q245R/304/316
SENV650	628	760	720	16-Φ23	210	1535	16	1.5	135		DN650 AJII	Q245R/304/316
SENV700	679	860	810	24-Φ26	210	1524	20	1.5	150		DN700 AS	Q245R/304/316
SENV800	781	975	920	24-Φ30	210	1638	20	1.5	175		DN800 AS	Q245R/304/316
SENV900	882	1075	1020	24-Φ30	250	1737	20	1.5	205		DN900 AS	Q245R/304/316
SENV1000	984	1175	1120	28-Φ30	250	1841	20	1.5	239		DN1000 AS	Q245R/304/316
SENV1100	1086	1225	1180	24-Φ25	250	1953	18	1.5	228		DN1100 AJII	Q245R/304/316
SENV1200	1177	1375	1320	32-Φ30	250	2053	20	1.5	301		DN1200 AS	Q245R/304/316

For SENV300~500 flue gas dampers: valve body wall thickness 4mm, clearance 1mm, seat thickness 12mm; seat bore = flange inner diameter - 17mm × 2
For SENV600~1200 flue gas dampers: valve body wall thickness 5mm, clearance 1mm, seat thickness 12mm; seat bore = flange inner diameter - 18mm × 2

DOUBLE LINKAGE DAMPER

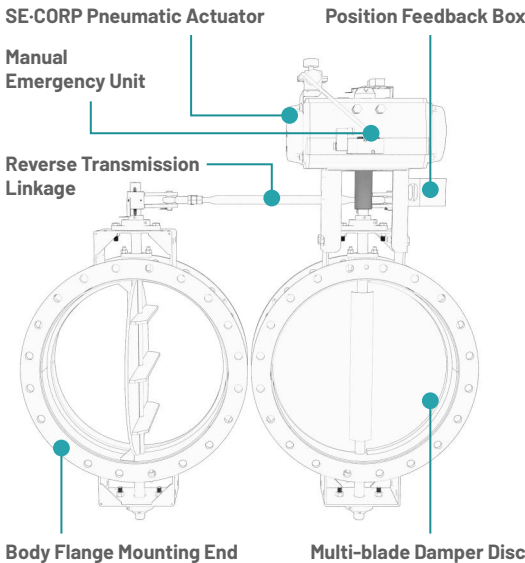
The SENV double linkage damper features synchronous reverse linkage. A single SE-CORP pneumatic actuator drives two valve bodies for opposite opening/closing to switch flue gas across two pipelines. Approved by multiple classification societies, it supports automatic pneumatic operation plus manual emergency override for air supply failure, eliminating pipeline control risks. High-temperature sealing ensures zero leakage during synchronized valve travel for stable performance. Its compact construction saves engine room installation space, fitting high-temperature flue gas piping for marine exhaust and land-based power units.



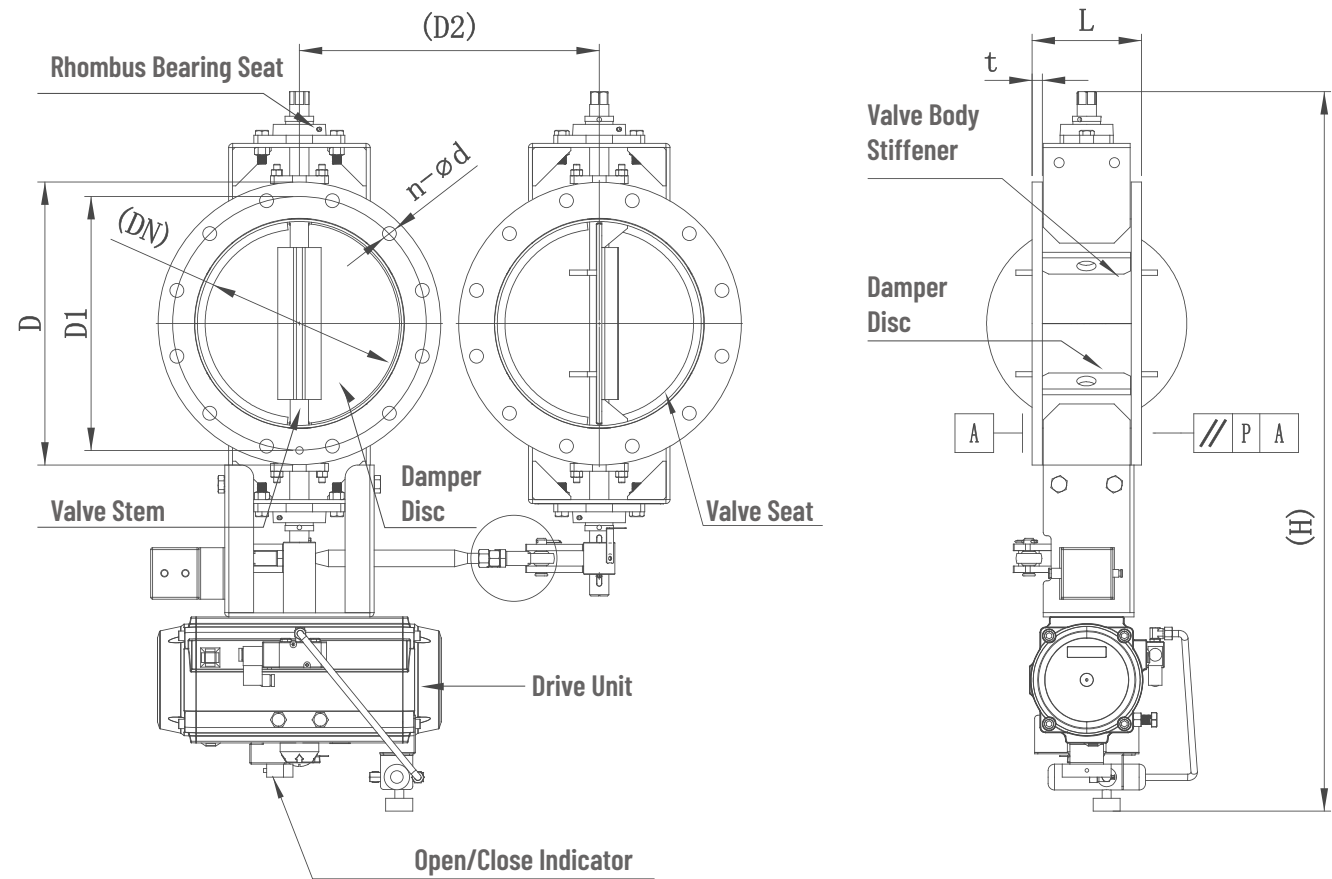
- Dual valve reverse linkage: realizes synchronous opening /closing switching of two valves
- Single actuator driving dual valves: reduces control complexity and commissioning workload
- Integrated dual-valve layout: saves installation space for ship engine rooms
- Extended heat-insulated stem: reduces thermal impact on actuator components

MAIN TECHNICAL PERFORMANCE

Item	Specification
Applicable Medium	High-temperature flue gas for marine & land-based units
Long-term Operating Temperature	≤550°C
Actuation Configuration	SE-CORP pneumatic actuator + manual emergency unit
Air Supply Pressure	0.5-0.8MPa clean compressed air
Valve Position Feedback	DC24V remote feedback
Ingress Protection	IP56
Mounting Orientation	Unrestricted
Nominal Diameter Range	DN300-DN1200



OVERALL DIMENSION & CONNECTION SIZE



MAIN DIMENSIONS & WEIGHT

Model	Seat Bore	Flange Outer Diameter	Bolt Circle Diamete	Flange Center Distance	Bolt Quantity & Diameter	Length	Height	Thickness	Parallelism	Weight	Flange		
	DN mm	D mm	D1 mm	D2 mm	n-Φd mm	L mm	H mm	t mm	P mm	Kg	Flange Standard	Flange Size	Flange Material
SENV300	293	440	395	466	12-Φ22	170	1158	16	1.5	110	CB/T 3766-2014	DN300 AS	Q245R/304/316
SENV350	347	490	445	605	12-Φ22	170	1179	16	1.5	120		DN350 AS	Q245R/304/316
SENV400	394	540	495	605	16-Φ22	170	1231	16	1.5	135		DN400 AS	Q245R/304/316
SENV450	451	595	550	605	16-Φ22	190	1335	16	1.5	180		DN450 AS	Q245R/304/316
SENV500	501	645	600	655	20-Φ22	190	1342	16	1.5	190		DN500 AS	Q245R/304/316
SENV600	578	755	705	765	20-Φ26	210	1542	20	1.5	285		DN600 AS	Q245R/304/316
SENV700	679	860	810	985	24-Φ26	210	1646	20	1.5	325		DN700 AS	Q245R/304/316
SENV800	781	975	920	985	24-Φ30	210	1695	20	1.5	375		DN800 AS	Q245R/304/316

For SENV300~500 flue gas dampers: valve body wall thickness 4mm, clearance 1mm, seat thickness 12mm; seat bore = flange inner diameter - 17mm × 2
For SENV600~800 flue gas dampers: valve body wall thickness 5mm, clearance 1mm, seat thickness 12mm; seat bore = flange inner diameter - 18mm × 2



SELECTION & APPLICATION

This chapter introduces structural features and applicable selection scopes of SENV single and double linkage flue gas dampers, clarifies core differences between the two products in pipeline function, operating performance and applicable working conditions, covering marine, terrestrial power and other application scenarios with over 4000 completed project references. All product ranges hold certifications from multiple international classification societies. Equipped with thermal insulation structures and manual emergency assemblies, the dampers withstand flue gas up to 550°C for long-term stable operation in medium-to-large flue gas processing systems.

COMPARISON TABLE OF SINGLE & DOUBLE LINKAGE DAMPERS

Model	Single Linkage Flue Gas Damper	Double Linkage Flue Gas Damper
Model Appearance		
Core Structure	Independent single valve body construction	Dual valve bodies fitted with synchronous reverse linkage assembly
Opening & Closing Characteristics	Independent full open/full close for single valve, implementing single pipeline on-off control	Reverse linkage of dual valves, one opens whilst the other closes
Pipeline Function	On-off isolation for single flue gas pipeline	Automatic switching and diversion of two flue gas pipelines (for dedicated use in SCR and bypass pipelines)
Nominal Diameter Range	DN300-DN1200	DN300~DN800
Actuation Configuration	Individual pneumatic actuator for single valve body	One actuator synchronously drives dual valve bodies
Service Commitments	1.Dedicated after-sales support is provided, with all inquiries answered on working days. 2.All products pass full performance testing prior to delivery; classification society documentation is available on request. 3.Professional selection support is offered for piping drawing coordination with marine and onshore design institutes. 4.Technicians provide remote guidance for valve installation, calibration and system commissioning.	

STOCK CODE

832124

4,000 MARINE MATCHING PROJECTS · MATCHING VESSEL TYPES

Flue gas damper sales:

4000+



Container Ship



Bulk Carrier



Chemical Tanker



Drilling Platform



Ro-Ro Passenger Ship



Intelligent Tugboat



Wind Installation Vessel



Special-purpose Vessel

