



GERHMAN
HEAVY INDUSTRY

Heavy-duty Bubble-tight / Air Tight Dampers

(Zero leakage)

BLUE-SZERO



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"Gerhman Heavy Industry is a division of Gerhman, created to extend its expertise into the heavy industrial ventilation sector. It operates with the same commitment to quality and innovation, delivering specialized solutions for large-scale industrial projects."

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BLUE-SZERO



The Bubble-tight Shut-Off Damper, BLUE-SZERO, is specifically designed for use in ventilation systems within highly sensitive environments, such as the chemical, pharmaceutical, and nuclear industries, where stringent leak tightness is crucial.

This damper significantly exceeds the leak tightness standards outlined in DIN 25 496 (Ventilation components in nuclear facilities).

Type Blue-SZERO, ensures exceptional safety and dependability due to:

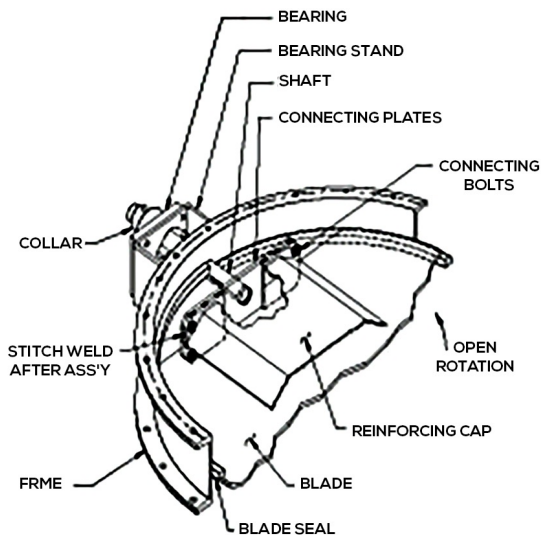
- Its advanced design,
- Its robust system,
- And the specially engineered damper mechanism.

Frame	Blade
<ul style="list-style-type: none"> • Coated steel • Stainless steel AISI 304L • Stainless steel AISI 316L • Other materials according to customer's specifications 	<ul style="list-style-type: none"> • Coated steel • Stainless steel AISI 304L • Stainless steel AISI 316L • Other materials according to customer's specifications

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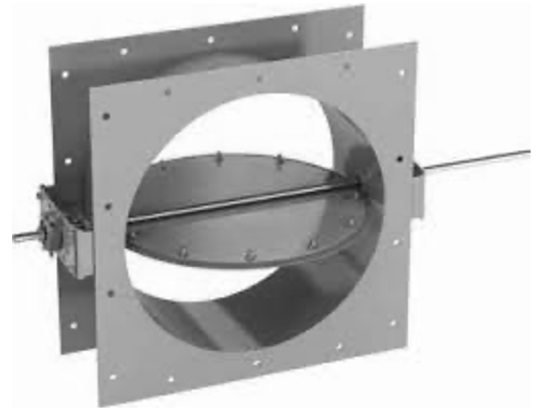
Casing	Coated steel
	Stainless steel AISI 304L / 316L
	Other materials according to customer's specifications
Blade	Coated steel
	Stainless steel AISI 304L / 316L
	Other materials according to customer's specifications
Sealing	Rubber
Working Pressure	Min: 20 Kpa/80" WG
	Max: 50 Kpa/80" WG
Standards	EN1751:2014
Blade	Class 4
Casing	Class C
Bubble Tight	Up to 20K Pa
Hygiene Compliance	VDI 6022
	DIN 1946-4
	EN 15780
	EN 13779
	VDI 3803 Part 1:2010-02
	BS EN 17141:2020



Types

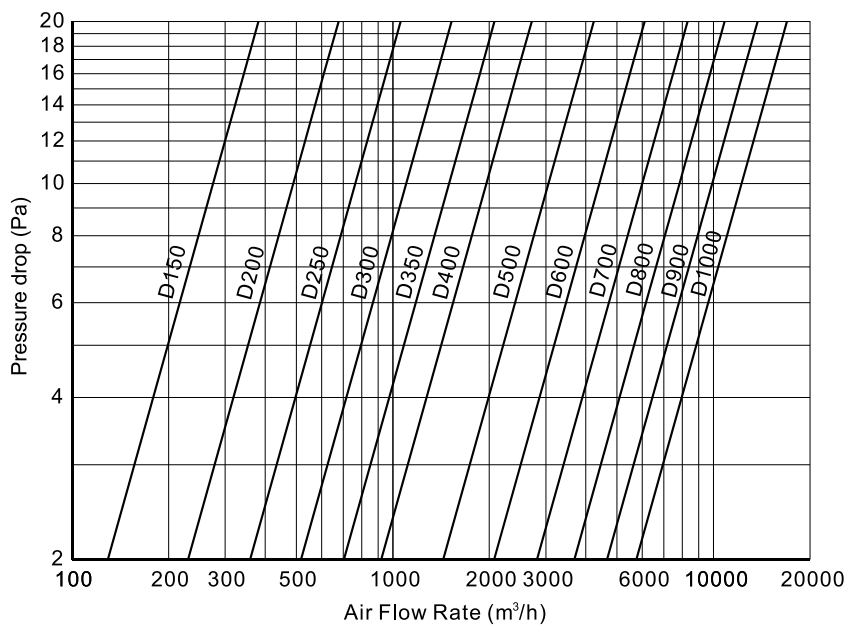


Blue-SZERO

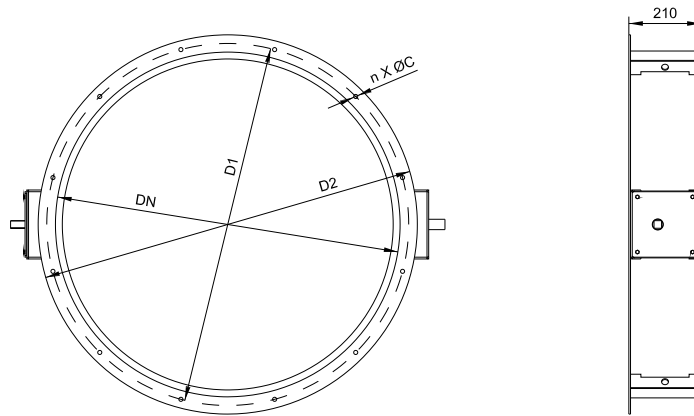


Blue-SZERO+FR

Air flow vs Pressure drop



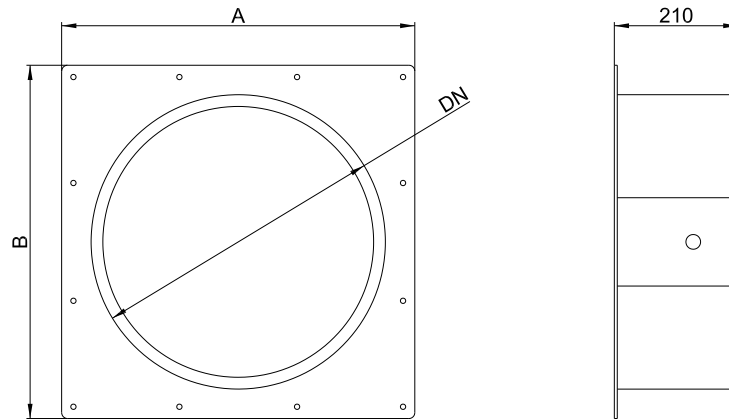
Sizes



Blue-SZERO

DN (mm)	D1 (mm)	D2 (mm)	n x Ø9 (mm)
150	200	250	4xØ9
200	250	300	4xØ9
250	300	350	6xØ9
300	350	400	6xØ9
350	400	450	8xØ9
400	450	500	8xØ9
500	550	600	10xØ9
600	650	700	10xØ9
700	750	800	12xØ9
800	850	900	12xØ9
900	950	1000	14xØ9
1000	1050	1100	14xØ9

Sizes



Blue-SZERO+FR

DN (mm)	A (mm)	B (mm)
150	250	250
200	300	300
250	350	350
300	400	400
350	450	450
400	500	500
500	600	600
600	700	700
700	800	800
800	900	900
900	1000	1000
1000	1100	1100

Control

 <p>The image shows a vertical, grey electric actuator with a black handle at the top. The label on the front includes the brand name 'InMax' and technical specifications.</p>	Electric Actuator Specifications		
	Power Supply	24/110/220/380V AC±10%, 24/110/220V DC 50/60HZ±10%	
	Torque	30-2000NM, 0°~270° stroke	
	Signal Output	4-20mA or 0-10V DC	
	Failure Protection/Operating temperature	Internal thermal protection. Open 120°C ± 5°C, Close 97°C±15°C	
	Features	Manual operation/Self-lock/ Mechanical or electronic limit	
	Anti-vibration	X Y Z 10g, 0.2~34HZ, 30mins	
	Certifications	Waterproof level IP67, NEMA 4/6, CE marked.	
	Ex-proof version	Upon request	
 <p>The image shows a horizontal, cylindrical pneumatic actuator with a black handle on top and two ports on the side.</p>	Pneumatic Actuator Specifications		
	Torque mode	Double-acting output / Single-acting output (Spring return)	
	Torque range	3.6~13022 NM, 0°~ 90° stroke	
	Air pressure	2.5~8 Bar	
Certifications	ATEX94/9/EC Ex II 2GD c T95°C IEC 61508 SIL 3		
 <p>The image shows a manual actuator with a large black handwheel and a metal body with various ports and a mechanical indicator.</p>	Manual Actuator Specifications		
	Materials	Coated steel/SS304	
	Features	Low operation force On/Off Position Holder Mechanical indicator	



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• +90 0850 303 4766



• info@gerhman.com



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