

AIR TIGHT DAMPER

JAD SMART SERIES ADVANCED AIR SEALING TECHNOLOGY



Precision Engineering for Maximum Efficiency and Low Leakage



JAD SMART SERIES AIR TIGHT DAMPER



JAD Smart Series Air Tight Damper is a crucial component in HVAC (Heating, Ventilation, and Air Conditioning) systems designed to control the flow of air within ductwork. Also known as a sealing damper or isolation damper, it plays a key role in regulating and isolating air movement. Commonly use in high-level biosafety laboratories (BSL-3, BSL-4, ABSL-3, ABSL-4), the airtight damper is engineered to provide a tight seal when closed, preventing the unwanted transfer of air between different zones or ducts. This is particularly important in applications where maintaining specific environmental conditions, such as temperature, pressure, or cleanliness, is crucial.





JAD Smart Series Air Tight Damper with Manual Actuator (JAD-BD-M)

JAD Smart Series Air Tight Damper with Motor Actuator (JAD-BD-E)



PRODUCT FEATURES

JAD Smart Series Air Tight Dampers is diverse, spanning various industries and applications. Their benefits include energy efficiency, precise control, improved air quality, compliance with environmental standards, and enhanced system longevity.

Airtightness

The leakage rate is not more than 0.25% of the net volume of the component under pressure of not less than +2500 Pa and -2500 Pa.

Durability

Tested more than 30,000 switching cycles, airtightness remains leak-free within an hour.

■ Temperature Adaptability -50°C to +120°C

Corrosion Resistance

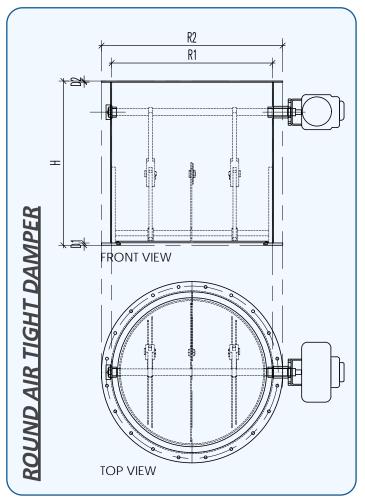
The valve body, valve plate, connecting rod, and other components are made of high-quality 304 stainless steel with a valve body thickness of 4mm. The sealing ring is made of silicone material, resistant to disinfectants, cleaning agents, acids, alkalis, and other chemical reagents.

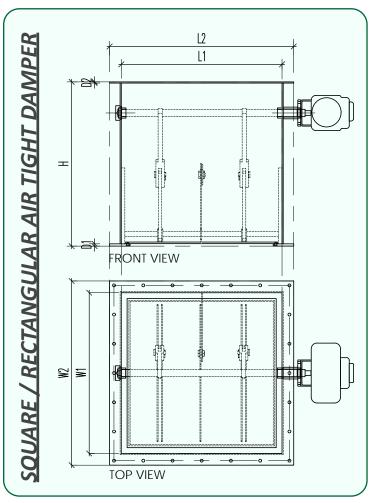
Pressure Resistance

Under continuous pressure of -2500 Pa for 60 minutes, no permanent structural deformation occurs.



JAD SMART SERIES AIR TIGHT DAMPER





Model	R1 (mm)	R2 (mm)	H (mm)
JAD-BD-E-D200 / JAD-BD-M-D200	200	270	220
JAD-BD-E-D250 / JAD-BD-M-D250	250	320	270
JAD-BD-E-D300 / JAD-BD-M-D300	300	370	320
JAD-BD-E-D350 / JAD-BD-M-D350	350	420	370
JAD-BD-E-D400 / JAD-BD-M-D400	400	470	420
JAD-BD-E-D450 / JAD-BD-M-D450	450	520	470
JAD-BD-E-D500 / JAD-BD-M-D500	500	570	520
JAD-BD-E-D550 / JAD-BD-M-D550	550	620	570
JAD-BD-E-D600 / JAD-BD-M-D600	600	670	620
JAD-BD-E-D650 / JAD-BD-M-D650	650	720	670
JAD-BD-E-D700 / JAD-BD-M-D700	700	770	720
JAD-BD-E-D750 / JAD-BD-M-D750	750	820	770
JAD-BD-E-D800 / JAD-BD-M-D800	800	870	820
JAD-BD-E-D850 / JAD-BD-M-D850	850	920	870
JAD-BD-E-D900 / JAD-BD-M-D900	900	970	920
JAD-BD-E-D950 / JAD-BD-M-D950	950	1020	970
JAD-BD-E-D1000 / JAD-BD-M-D1000	1000	1070	1020

Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	H (mm)
JAD-BD-E-200X200 / JAD-BD-M-200X200	200	270	200	270	232
JAD-BD-E-250X200 / JAD-BD-M-250X200	250	320	200	270	232
JAD-BD-E-320X200 / JAD-BD-M-320X200	320	390	200	270	232
JAD-BD-E-320X250 / JAD-BD-M-320X250	320	390	250	320	282
JAD-BD-E-400X200 / JAD-BD-M-400X200	400	470	200	270	232
JAD-BD-E-400X250 / JAD-BD-M-400X250	400	470	250	320	282
JAD-BD-E-400X320 / JAD-BD-M-400X320	400	470	320	390	352
JAD-BD-E-500X200 / JAD-BD-M-500X200	500	570	200	270	232
JAD-BD-E-500X250 / JAD-BD-M-500X250	500	570	250	320	282
JAD-BD-E-500X320 / JAD-BD-M-500X320	500	570	320	390	352
JAD-BD-E-500X400 / JAD-BD-M-500X400	500	570	400	470	432
JAD-BD-E-630X320 / JAD-BD-M-630X320	630	700	320	390	352
JAD-BD-E-630X400 / JAD-BD-M-630X400	630	700	400	470	432
JAD-BD-E-630X500 / JAD-BD-M-630X500	630	700	500	570	532
JAD-BD-E-800X320 / JAD-BD-M-800X320	800	870	320	390	352
JAD-BD-E-800X400 / JAD-BD-M-800X400	800	870	400	470	432
JAD-BD-E-800X500 / JAD-BD-M-800X500	800	870	500	570	532



JAD SMART SERIES AIR TIGHT DAMPER

- Robust construction
- Continuously welded at all pressure barrier points
- Manual or electric operation
- Pre-drilled bolt holes in out-turned standing flanges

APPLICATIONS

- Hospital Isolation Suites
- Biohazard Facilities
- Pharmaceutical Facilities
- Microelectronic Manufacturing
- Laboratories
- Food Processing Areas
- Chemical Process Facilities
- Nuclear Power Plants
- Cleanrooms
- Marine Offshore Outdoor
- HVAC systems



JAD SOLUTIONS PTE LTD

(A member of Natural Cool Holdings Limited)

87 Defu Lane 10 #05-02 Singapore 539219

Tel 65-6841 8656 Fax 65-6284 4415

 $\textbf{Email} \ \text{enquiry@jad-venture.com} \ \textbf{``Web'} \ \text{jad-venture.com}$

Company Reg No. 200703726E GST Reg No. 200703726E