

Wafer Butterfly Valves for Hot Air WBV-H

Wafer butterfly valves designed to control high temperature ambient air or preheated combustion air.

Overview



Wafer Butterfly Valves are used to trim or control ambient or preheated air. The valve can be ordered with a hand lever or can be supplied with a lever and linkage for automatic control. When sizing wafer butterfly valves for automatic control, normal practice is to size for a valve differential pressure (Δp) of 10-20 % of total available air pressure. When ordering, specify temperature service desired: ambient air to 400 °F, or preheated air to 1200 °F.

Features & Benefits:

- To trim or control ambient or preheated air
- Available with hand lever or with lever and linkage for automatic control
- WBV-H can be used in temperatures of up to 1200 °F for preheated air
- WBV-H can be used in temperatures of up to 400 °F for ambient air

Specifications

PROCESSING & PERFORMANCE METRICS

Sizing Recommendation

- Select for Δp = 10-20% of total available air pressure

Flow Characteristic

- Full-port, increased flow up to 70 deg , minimal pressure drop at 90 deg

MAXIMUM/MINIMUM TEMPERATURE LIMITS

Maximum Temperature

- Ambient Air - 400 deg F, Preheated Air - 1200 deg F



CONTROL, LOGIC & SYSTEM BEHAVIOR

Operating Modes

- Manual lever or automatic (lever + linkage)

ACTUATION, VALVE & MOTION CONTROL SPECIFICATIONS

Torque Rating

- Static torque table for 32 and 64 osi: 6 in=11/29, 8 in=11/29, 10 in=18/44, 12 in=34/85, 14 in=42/104, 16 in=55/137, 18 in=94/234, 20 in=112/291, 22 in=142/355 in-lbs

Valve Type

- Wafer-style butterfly valve

APPLICATIONS & COMPATIBILITY

Applications

- Trim or control ambient or preheated air

AIR & COMBUSTION AIR SPECIFICATIONS

Air Capacity

- Capacity values provided at 0.5 in WC and 1.0 in WC Δp by valve size (at 70 deg Open)

DIMENSIONS & SIZE SPECIFICATIONS

Size Range

- 6 to 22 in (larger sizes upon request)



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