Rotary Tight Shut-Off Valves
WAK
Responsive Engineering Meets the Most Demanding Requirements of Today's Users

WAK - A9
WAFFER Type

Material

- Body: GP240GH+N
  A216 WCB
- Disc: GX5CrNiMo19-11-2
  A 351 CF8M
- Shaft: X5CrNiCuNb 16-4
  A 564 TP 630 / H 1150
- Seat: X6CrNiMoTi17-12-2+AT / Graphite
  A 240 TP 316 Ti / Graphite
- Bearings: GGG-NiCr20 2
  A 439 TP D2 (Ni-Resist)

1. Unique field-replaceable seal system in body
2. Keyed disc-to-shaft connection
3. Robust top and bottom shaft bearings
4. Form stable and flow optimized disc geometry
5. Emission-free packing system
6. External blowout prevention
7. Heavy-duty cast operator flange rigidly pinned and registered to body
8. Disc over-travel stop
9. Manual operators specifically engineered
The WAK - A9
Severe Service Butterfly Technology

Based on the Adams proven sealing system. The metal to metal torque seating offers exceptional performance, durability and reliability. Our valves have proven their longevity in the most critical applications, under extreme working conditions and thousands of cycles.

Technical Features WAK-A9

Metal-to-Metal Seating
Seal Ring in Body
Torque Seating
Wafer or LUG-Type Construction
Flange connection acc. to: ASME 16.5/16.47
Body Length acc. to: API 609 Table 2 (A)
Inherently Fire-Safe
Low Fugitive Emissions
German "TA-Luft"-Specification
Compact Size / Low Weight
Saves Piping Space
Reduced Piping Loads
Reduced Installation Cost
Stable Control Characteristics
Replaceable Internal Parts
Replaceable Seal System
Zero leakage according to API 598 with laminated seat

Design

Nominal Diameters:
80 mm / 3 inches to 900 mm / 36 inches

Temperature Range:
Laminated Seat:
-196°C / -320°F to 500°C / 932°F
L Seat:
-46°C / -50°F to 500°C / 932°F
Solid Seat:
-46°C / -50°F to 600°C / 1112°F

Pressure Class:
CLASS 150/300

Actuator Options:
Manual Gear, Pneumatic, Electric, Hydraulic
The ADAMS - WAK-A9 - Sealing System

Due to the Unique Seat Geometry, the disc moves without jamming even at High Temperature Differentials and under High Pressure Differentials.

Torque applied to the shaft is transferred by keyed connection to the disc, which is firmly pressed against the seal ring.

With the laminated seal ring held statically in place, no flexing or movement occurs. This rugged system produces high sealing loads and assures the most dependable zero-leakage shut-off in critical applications.

Utilizing a pure metallic pressure assisted sealing system, the patented L-design provides class VI shut-off while reducing the operating valve torque.

The solid metal sealing ring provides superior shut-off capability at high temperatures and with abrasive media.

During operation the streamlined shape of the disc provides excellent flow characteristics with low pressure losses. Note that with the unique placement of the seal ring in the body, it is not susceptible to direct impingement from the flow stream. The flex free disc minimizes the necessary drive torque.
Uncompromising Quality

Our highly qualified staff and facilities guarantee ADAMS’ consistent high production standards. An expert team of experienced mobile service personnel is available for on-site staff training and servicing during regular plant maintenance.

During the complete manufacturing process all valves and their components are subjected to stringent quality surveillance. A continuous improvement program includes quality planning, quality control, monitoring, intensive personnel training, regular internal audits, and external suppliers' audits.

Ongoing optimization ensures that all products meet the highest standards.

Applications
- Steam Distribution
- Refining and Petrochemical
- Power Generation
- Chemical
- Liquefied Natural Gas
- Steel Making
- Pulp and Paper
- Water Works
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For more than 40 years ADAMS Valves has been internationally acclaimed in all major industries and services.
The ADAMS name is synonymous with uncompromising quality.
Today the ADAMS group has manufacturing facilities in Germany, Switzerland and the United States and multiple sales offices with authorized agents on every continent.
This widespread network assures optimum service to all customers.
To locate your local sales agent, please log onto our website or contact one of the offices above.