KHA FOR COKE GAS APPLICATION:

Coke is a important component needed for the combustion process in the blast furnace of a steel plant. Coke will be produced out of coal by the pyrolysis process (heating of coal) at temperatures of 900 - 1400°C. As a side product from the pyrolysis process, coke oven gas is generated which will be reused for firing purposes in the coke oven. Coke oven gas is a very hot, sticky and ammonia containing gas. In the supply pipeline of coke gas to the coke oven, Klinger Ballostar KHA ball valves with KFC soft seated sealing elements in double block and bleed execution are used. In addition, the valves will be operated with pneumatic actuators in a very short period of time.

Advantages of the KHA double block and bleed for coke oven gas:

- Soft seated KFC sealing elements have elastic properties and firm design at the same time which increases the lifetime of the valve in this demanding application.
- Leakage rate A also by usage of a hot and sticky media and bidirectional flow.
- With additional PEEK washer in the stuffingbox valid for many opening / closing operations.
- The double block and bleed feature ensures that the valve cavity could be drained when the valve is closed. → Reduction of maintenance costs.
- Leakage detection during operation via the test and drain valve is possible.
- ISO TOP flange acc. EN ISO5211 on the valve for installation of pneumatic actuators for quick opening and closing.
- Full availability of spare parts for the valve.

Coke oven batteries

KHA DB&B

KHA FOR COKE GAS APPLICATION:

Construction KHA double block and bleed for coke oven gas:

- (1) Stuffingbox PTFE labyrinth with PEEK friction washer for high operating cycles.
- (2) Sealing elements KFC soft seated (leakage rate A).
- (3) Body: Material 1.0619 or 1.4408. Process connections available in flanged, weld end and threaded end version.
- (4) Solid ball with cylindrical passage in stainless steel 1.4401 or 1.4408.
- (5) Drain / test cock for double block and bleed.
- (6) Pneumatic actuator for quick opening and closing.
- (7) ISO TOP flange acc. EN ISO 5211.