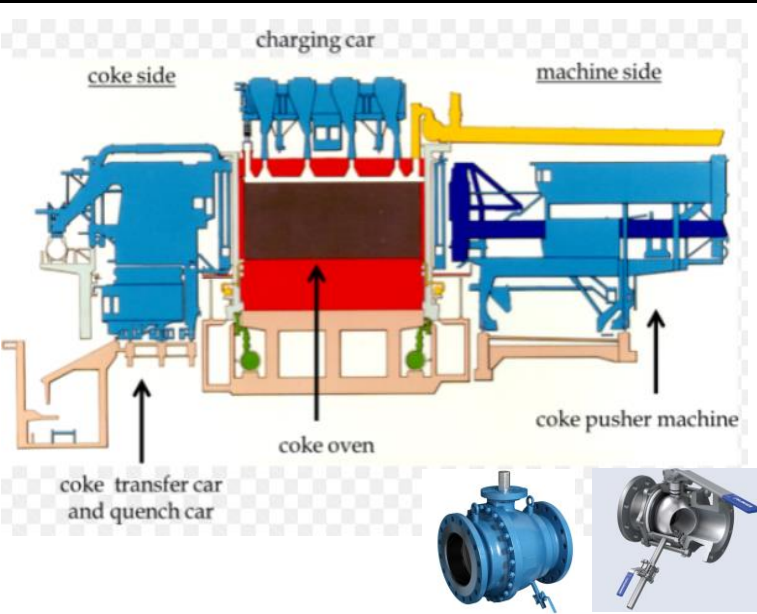


# KLINGER Fluid Control

## Application Case for Steel Industry

### KLINGER Ballostar KHA/KHI for Coke Oven Application

<b>Application Location:</b> Coke oven plant	
<b>Media:</b> Coke oven gas	
<b>Media properties:</b> Hot and sticky gas with ammonia content	
<b>Operating Temperature:</b> 100°C to 200°C	
<b>Operating Pressure:</b> Below 1bar	

#### Description of application:

Coke is an important component for the combustion process in the blast furnace. Coke will be produced out of coal during the pyrolysis process at temperatures of 900 - 1400°C. Blast furnace gas is used for firing the coke oven. As a side product coke oven gas will be produced which will be also reused for firing the coke oven. Coke oven gas is very hot and sticky. For the supply pipeline of coke gas to the coke oven, KLINGER Ballostar ball valves in Double Block & Bleed execution with pneumatic actuator are used for quick opening and closing.

#### Execution of ball valve series KHA and KHI for coke oven gas:

**Line size range:** KHA DN15 - DN125, KHI DN150 - DN1000

**Stem sealing:** KHA : PTFE labyrinth stuffingbox with peek washer  
KHI: AFLAS O-Rings (up to 200°C)

**Stem material KHA/KHI:** 1.4104, 1.4404

**Sealing system ball KHA/KHI:** Soft sealing KFC, leakage rate A

**Ball material KHA:** Stainless steel 1.4401 (optional with chrome coating)

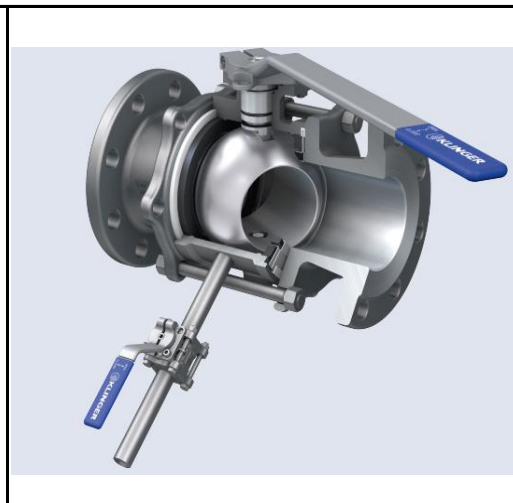
**Ball material KHI:** EN-JS1030 Fe/Cr30f,mt (chrome coated)

**Body material KHA/KHI:** Cast steel 1.0619 or stainless steel 1.4408

**With drain/test cock for Double Block & Bleed**

#### Additional equipment:

- ) Flanged version or weld ends
- ) Pneumatic actuators for quick closing
- ) Actuator accessories: solenoid valve, limit switches



#### Contact person for further information

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