

KLINGER Fluid Control

Reference Case

KHI in oxygen service (steel plant)

Location: Austria

Operating Conditions

Operating Temperature: max. 60°C

Operating Pressure: 12 bar

Media: Oxygen

KLINGER Product: Ballostar KHI

Size: DN200

Material: Stainless steel

Sealing: KFC-25



Ballostar KHI DN200 in trouble-free operation for 30 years

Description

The plant, where the operator decided to use KLINGER Fluid Control Ballostar KHI, is used to reduce the carbon content from approx. 4,5% to 0,03-0,04% by the use of the Linz Donawitz process (LD process). This process requires to blow pure oxygen at a pressure of 12 bar on the raw iron for about 15 minutes to finish that process.

The KLINGER Fluid Control Ballostar KHI DN200 ball valves are used to control the oxygen flow since 1988. The KHI ball valves are fulfilling up to 10.000 opening cycles (with a maximum closing time of 3 seconds) per year.

Since 30 years, the operator did not have a malfunction occurrence or any other problem related to the installed valves.

To ensure maximum operational safety it was essential for the operator that valves in oxygen service are certified according to the latest version of "Operation of resources; Chapter 2.32: Operation of oxygen equipment" by BAM (Bundesanstalt für Materialforschung- und Prüfung) in Berlin.

This certification confirms the resistance of the equipment to internal ignition when it is utilized in combination with gaseous oxygen.

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