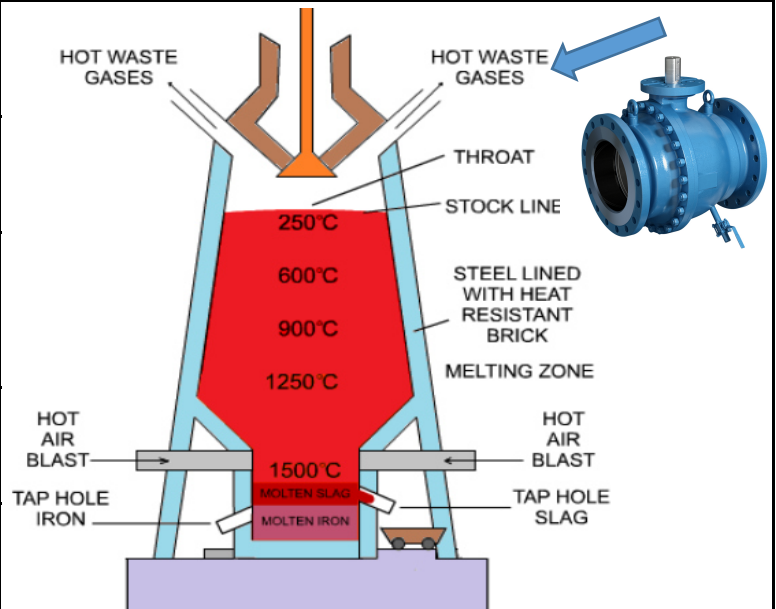


# KLINGER Fluid Control


## Application Case for the Steel Industry

### Klinger Ballostar KH(SV)I for Blast Furnace Applications

<b>Application Location:</b> On top of a blast furnace
<b>Media:</b> Blast furnace gas
<b>Media Properties:</b> Hot, dirty and abrasive gas with solid content. Contains nitrogen, carbon dioxide, carbon monoxide and hydrogen.
<b>Operating Temperature:</b> >200°C
<b>Operating Pressure:</b> >5 bar



**Description of application:**  
During the blast furnace process of iron making, blast furnace gas is produced. Blast furnace gas is a very hot, abrasive, solid containing and highly toxic gas because of the combination of carbon dioxide and carbon monoxide. The blast furnace gas is removed from the top of the blast furnace and cleaned in a gas scrubber where suspended particles are extracted. As a standard the "clean" blast furnace gas will be reused in compressors for the hot blast heater to heat up the air for the hot wind which will be used in the blast furnace process.

<b>Execution of ball valve series KH(SV)I for blast furnace gas:</b>	
<p><b>Line Size range:</b> DN150 - DN800, PN25/40  <b>Stem sealing:</b> AFLAS O-Rings up to 200°C          Fluoraz O-Rings on demand up to 250°C  <b>Stem Material:</b> 1.4104, 1.4401  <b>Sealing system ball :</b> Metal sealing stainless steel 1.4436  <b>Ball Material:</b> Nodular iron, chrome coated, EN-JS1030Fe/Cr30f,mt  <b>Body material:</b> Cast steel 1.0619 or stainless steel 1.4408  <b>Additional equipment:</b>          .) Flanged version or weld ends          .) Drain/test cock for double block and bleed          .) Additional purge connections for seat cleaning          .) Pneumatic and electric actuators          .) Mechanical gears</p>	

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