

## References Ramén Ball Sector valves

# Fly ash application in a heat & power plant

A heat and power plant in Stockholm had for a longer period of time experienced difficulties with the valves in one of their applications that involved fly ash. Ramén Valves offered them an improved control valve solution that helped to withstand the harsh media.

### The case in short

**Customer:** Heat and power plant, Stockholm, Sweden

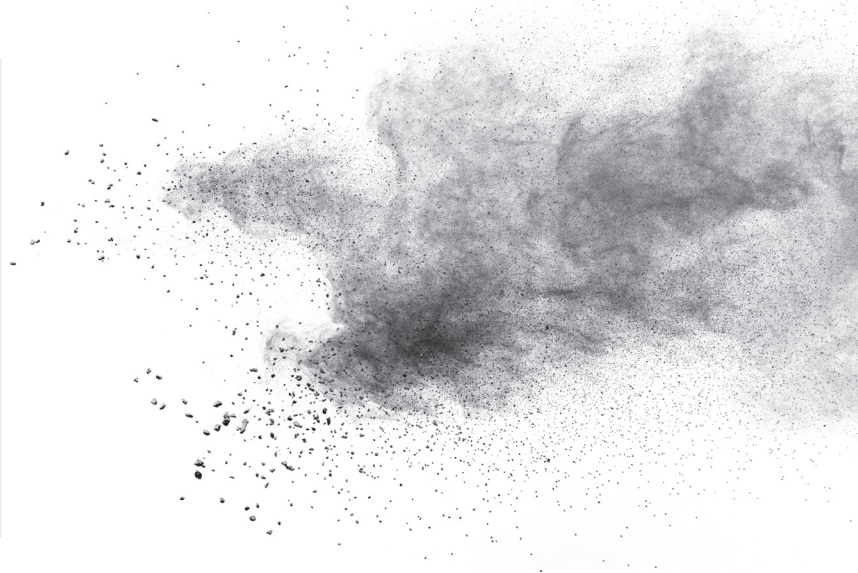
**Temperature:** 150-250°C

**Media:** Fly ash carried by air. Ash is created by the combustion of wood pellets.

**Pressure:** 6-7 barg

**Function:** ON/OFF

**Previous solutions used by the customer:** Regular butterfly valves and ball valves that could only withstand the media for a few weeks before they needed to be replaced.



### Our solution

A KS Ball Sector Valve model 1E with an innertube. The Ball sector and the seat holding ring are made from hard chromed stainless steel which provides a high hardness and protection from abrasion. The model 1E is a unique feature on the market providing a deep stellite seat that offer an extra protection on the seat holding ring.

The inner tube is made from stainless steel and directs the flow from the inlet of the valve directly to the outlet of the valve, protecting the body from any possible abrasion.

**Result:** After one year of operation, all parts in contact with the media have not faced any abrasion and the valve still operates successfully with the same tightness as it originally did.

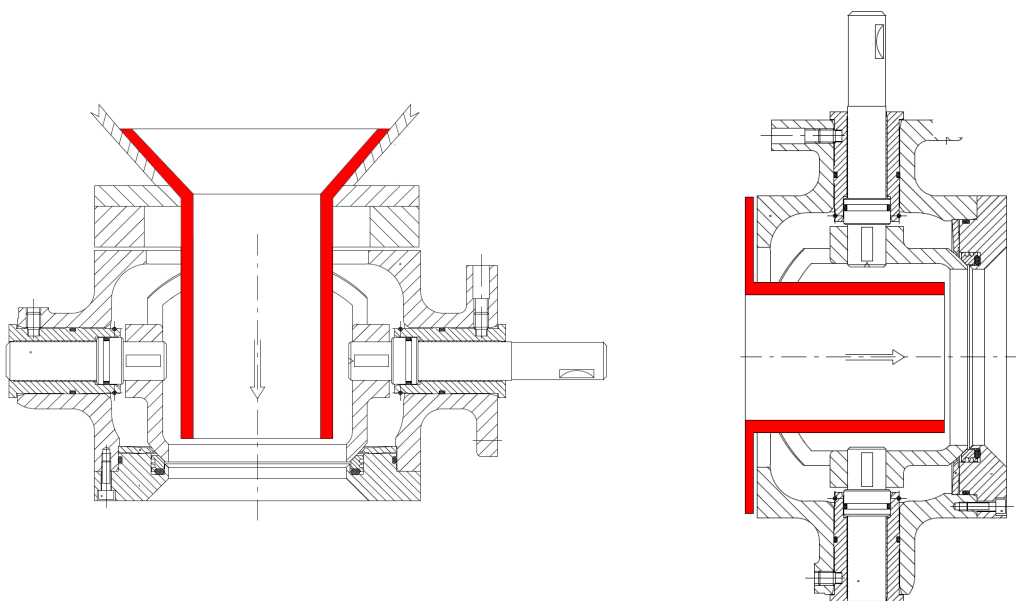
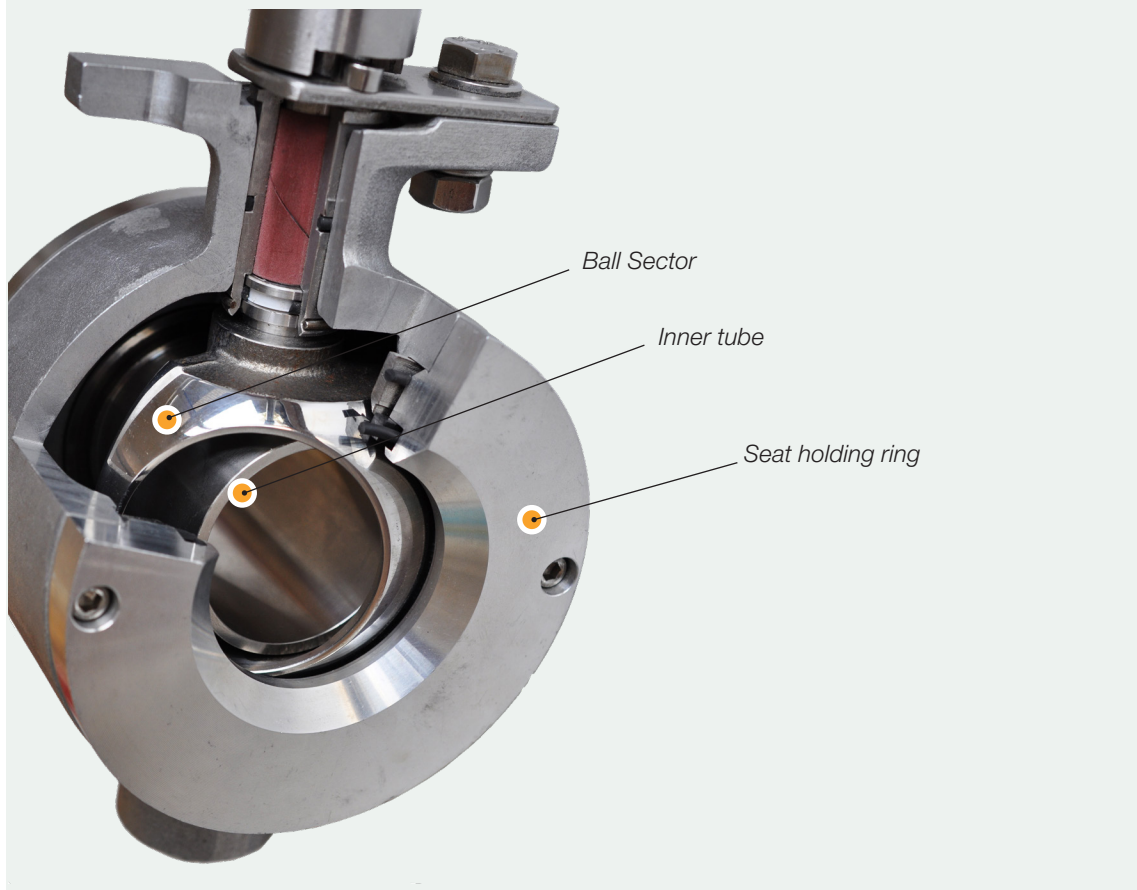


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## Ramén Ball Sector valve with an inner tube

The end of the added inner tube lies close to the inner diameter of the ball sector. This prevents the flow from the abrasive media to get in contact with the wetted parts (seat and ball sector). This also prevents the cavity of the valve to entrap media when turning from opened to closed position.



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