

## KHA FOR BLACK LIQUOR APPLICATION:

Black liquor is a by-product in the pulp and paper industry, which is formed during the cooking process of wood but is nevertheless processed in other important processes. Wooden chips will be cooked for several hours in pressure vessels together with caustic soda, sodium sulphide and sodium sulphate (Kraft/sulphate process). In this process, LIGNIN will be split off and converted into black liquor which will be filtered off from the pulp. Subsequently black liquor will be dried in several steps in the evaporation area and burned in the recovery boiler to generate steam. A turbine will be feeded with steam to generate electricity. Black liquor is very abrasive, corrosive and contains wooden fibers from the cooking process and makes reliable and durable valves necessary to avoid downtime and save maintenance costs.

### Advantages of the KHA for black liquor:

- » Usage of metal sealing elements → less wear at solid containing media.
- » Ball material stainless steel chrome coated. The chrome coating has a high surface hardness and low surface roughness → resistant to solids and damages on the ball surface. Media particles cannot stick on the ball and damage the seal seats.
- » ISO TOP flange acc. EN ISO5211 on the valve for installation of pneumatic actuators for quick opening and closing.
- » For version with weld and threaded ends, inline service possible – time and cost efficient.
- » Full availability of spare parts for the valve → low storage costs.

### Construction KHA for black liquor:

- » (1) Stuffingbox PTFE labyrinth.
- » (2) Sealing elements METAL.
- » (3) Body: Material 1.4408 (DUPLEX on request. 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 chrome coated.
- » (5) ISO TOP flange acc. EN ISO 5211.
- » (6) Pneumatic actuator for quick opening and closing

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