

Reference

Iris® Diaphragm Control Valve

Head Office

Emile Egger & Cie SA
Route de Neuchâtel 36
2088 Cressier NE (Switzerland)
Phone +41 (0)32 758 71 11
info@eggerpumps.com
www.eggerpumps.com

Sludge Control in power plant

Combined heat and power plant HKW North Unterföhring

The Munich public utilities company has been operating the combined heat and power plant North in Unterföhring, Bavaria with three independent units since 1964. The main part of the energy demand is covered by hard coal with waste burned in two units. The electrical energy generated is fed into the municipal supply network. Thanks to coupled district heating, the hot water networks Munich North and Freimann as well as the inner city steam network is supplied with heat.



Combined heat and power plant Munich North, Picture: SWM

Sludge regulation for centrifuge feeding

Three Iris® Diaphragm Control Valves with actuators are used to feed the centrifuges of the thermal power plant North. The sewage sludge with a dry substance content of 5 % is precisely conveyed into the centrifuges at an inlet pressure of max. 2 bar with the help of the Iris® valves. The Iris® control valves are characterized by a free passage cross-section, as the six segments can be retracted completely out of the housing and there are no obstruction components in the flow axis. Furthermore, the unique centric flow profile enables a very precise and energetically optimized process control.



Iris® Diaphragm Control Valves for sludge feeding of the centrifuges in the combined heat –power plant Munich North

Detailed information

- 3 x BS DN 100 E (4")
- Chemical neutral sludge with 5 % dry substance
- Upstream pressure max 2 bar (29 psi)
- Temperature up to 50 °C (122 °F)
- Construction
 - Valve body: cast iron
 - Segments: bronze
 - O-Rings: NBR

The three DN 100 (4") diaphragm control valves have been in operation without failure since the beginning of 2001.

Reference company

SWM Stadtwerke München - www.swm.de
Heizkraftwerk Nord Abfallverbrennung
(Combined heat and power plant)



Author

Emile Egger & Cie SA, Thomas Bleif

3015.en | 11.2022