BAHAR
mühendislik

TELESCOPIC VALVES

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TELESCOPIC VALVES

General Description and Intended Use

Telescopic valves are used for containing, directing or stopping water flow by creating a water level difference between two pools.

It is generally used for taking sludge from settling pool. Sludge accumulated at the center of settling pools is directed to recirculation and sludge pump station with the help of telescopic valves moving in vertical direction.

Working Principle Of Equipment

Telescopic valve is placed at the end of line transferring the sludge accumulated at the center of the settling pool to recirculation and sludge pump to adjust hydraulic water level. In this pool, vertical movements of telescopic valve and upper level of pipe becomes replaceable.

Water tries to be at the same altitude at every place that has atmospheric pressure with the open cup principle. Therefore, just as upper level of telescopic valve ascends from the water level located in settling pool, no sludge will come to recirculation pool. With the same reason, when this water goes down from the level, sludge will come to recirculation pool. Upper level of telescopic valve is changed, line pressure is increased and flow rate of sludge to be taken to recirculation pool is adjusted with the help of drive group.

Accessories

- Polycarbonate Shaft Protection Tube*
- Pneumatic Actuator*
- Electrical Actuator*
- Online Position Monitoring and Control System*
- Local Power and Control Panel*

* Optional accessories are defined.

TECHNICAL SPECIFICATIONS

- It is manufactured as manual remote operated, with electrical actuator or with pneumatic actuator driving mechanism according to request of the customer and place of use.
- Impermeability between moving pipe and fixed pipe of telescopic valve is ensured with gasket.
- Pressure adjustment is changed in a way to provide sealing.
- Models with electric actuators are coupled with telescopic valves in a way to have various communication protocols upon request of the customer. Position of the telescopic valve is monitored and commanded with the info received from actuator if requested.
- All electrical actuators of telescopic valves are selected in a way to for valve to move moving pipe at a speed that will not prevent sealing gasket to be damaged as standard.

ADVANTAGES

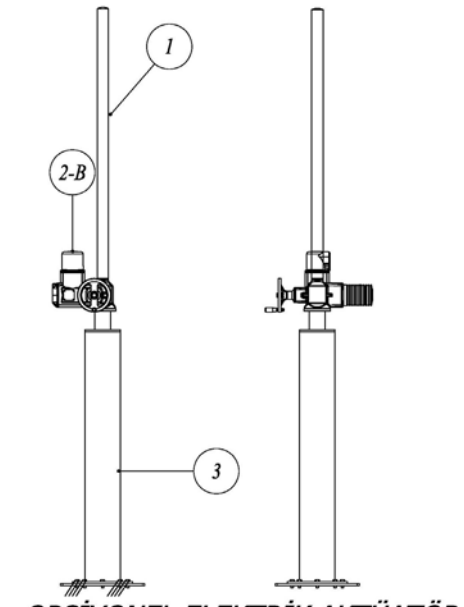
- Low Operation and Maintenance Costs,
- Possibility to Control and Follow the System Operation over SCADA,
- Easy Transportation and Mounting,
- Long Operation Life,
- Low first Investment Cost,
- Easy to Operate and Maintain,
- Economical and Resistant Design,
- Manufacturing in Several Dimensions,
- Suitable for Outdoor Operation,
- Directing Water,
- Maximum Impermeability.

Material Details

- Moving Pipe: They can be manufactured as DIN 1.4301 (AISI 304) or DIN 1.4401 (AISI 316).
- Fixed Pipe: They can be manufactured as DIN 1.4301 (AISI 304) or DIN 1.4401 (AISI 316).
- Upper Mount and Assembly Table They can be manufactured as DIN 1.4301 (AISI 304), or DIN 1.4401 (AISI 316), S235JR + Hot Dipping Galvanized Coating or S235JR + Epoxy Paint.
- Sealing: It is provided by Soft Gasket.
- Shaft Protection: It is provided with a polycarbonate tube.

"Different materials can be preferred in accordance with the request of the customer."

No	Part Name
1	Shaft Protection Tube
2-A	Manual Handwheel
2-B	Electric Actuator (Optional)
3	Upper Support
4	Anchor Plate
5	Moving Pipe
6	Fixed Pipe
7	Bottom Assembly Flange



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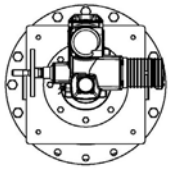

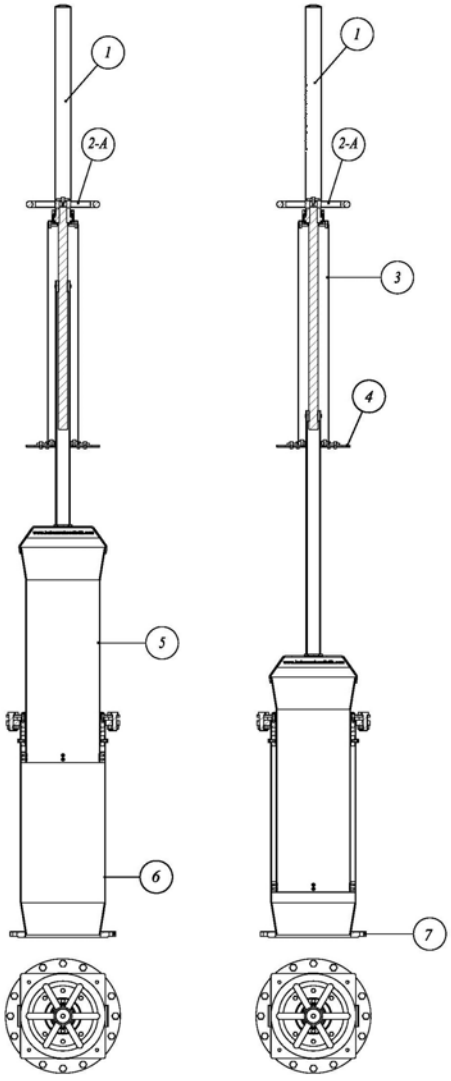

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