

SEMPELL SWING CHECK VALVE WITH POWER ASSIST

MODEL 802

A free-swinging design enables the valve to close by disc weight, preventing damage in the turbine from reverse flow.



FEATURES

- Low maintenance gland can be retightened.
- Hard-faced sealing faces at disc and body seat.
- Low friction by burnished shaft
- Surfaces treated bearing faces on each part with relative motion
- Easy to disassemble bodies.
- Mechanical taking of control angle directly at disc lever.
- Mounting of pneumatic or hydraulic actuators.
- Actuator mounting right or left possible seen from steam flow direction.
- Universal connections by various design of welding ends and flanges as standard.
- Deviating designs of welding ends in regard of dimension and material as well as other actuators, limit switches and special designs according to customers' request can be supplied.

GENERAL APPLICATIONS

Model 802 is a free-swinging check valve and installed into the steam line between outlet turbine and HRSG reheater. It protects the HP turbine against backflow of the steam flow from the cold reheat line in case of turbine trip or at no-load condition. In case of decrease or reversal of the difference pressure, the valve will be closed by its own weight to prevent a damage of the turbine by backflowing medium. Mounting a pneumatic or hydraulic actuator supports this quick-closing function. Mounting an inductive remote transmitter shows the opening angle of the sealing plate.

TECHNICAL DATA

Size:	DN 350 - 800 NPS 14 -32
Pressure :	up to PN160 up to class 900
Body sealing:	Self sealing, cover sealing
Shaft sealing	Molded graphite packing rings
Closure time	< 2 sec.
Material:	Body: SA217WC6 Shaft: 1.4122 nitriding Disc lever = Hardfacings: 1.4115 Bearing sleeve 1.8550 nitriding
Leakage class:	Leakage rate 2 acc. to DIN3220 part 3 or IEC 534 part 4, Class IV, test course 2, medium L
Connection:	Welding ends acc. to EN/DIN and ASME

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