

S33.C: DN 150-1200 • PN 2,5-100 • Tmax 450 °C

S43.C: DN 150-600 • PN 63-100 • Tmax 600 °C

Body design: bonnet gate valve

Rising stem

Control wedge

Connection:

☉ EN 1092-1 FLANGED ENDS

☼ EN 12627 WELDED ENDS



S33.C - Fully welded body



S33.C - Cast body



S43.C - Forged body

Application

- conventional and nuclear power engineering where a specified shape of the performance characteristic depending on the valve travel for different flow rates is required.
- gas industry where pipings with different pressures are to be connected or where gas is to be discharged from the piping system in a defined way.
- heat production and distribution where a defined quantity of the fluid is to be fed to the equipment in order to guarantee performance of the equipment.

Working medium

- water
- steam
- gases
- other fluids

Technical description

The control gate valves are valves used to control the flow of the service fluid which may flow in one direction. The control gate valves are not isolating valves. The design of control gate valves is based on the design of conventional gate valves. The control features of the gate valves are provided by the unique construction of the throttle plate, seats and guides. The throttle plate and the seats are equipped with special holes or grooves that overlap each other during the process of opening so that the regulating characteristic is guaranteed exactly in accordance with the customer's specification. The control gate valves are designed by means of sophisticated computer programs for the performance characteristic of the gate valve

to be in full conformance with requirements of the customer. The gate valves are made as cast or fully welded gate valve. Materials and main design and face-to-face/end-to-end dimensions of gate valves are identical to cast design with type designation S33.1 and for welded design with type S33.4 and forged type S43.1.

Operation

- handwheel
- electric actuator
- pneumatic actuator
- remote operation

The gate valves can be equipped with a locking device.

Testing

The gate valves are subjected to the following tests performed with water:

- shell strength test
- shell tightness test
- seat tightness test and operability test according to EN 12266.
- other tests by agreement.

Installation

The gate valves may be installed into the piping in vertical or horizontal position. In case of gate valves equipped with an electric actuator or a pneumatic actuator, must you follow instructions of the manufacturer of actuators.