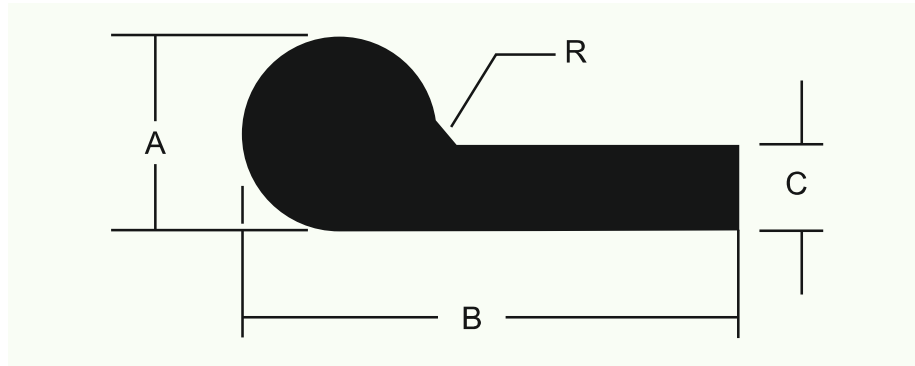


RUBBER GATE SEAL AS PER IS:11855



CONCEPT:

To prevent flow of water past a closed gate, seals are either provided on the gate or on the metal frame in the gate slot. Rubber is most commonly used material for seals, as it is elastic, deforms readily and regains its original shape on removal of load.

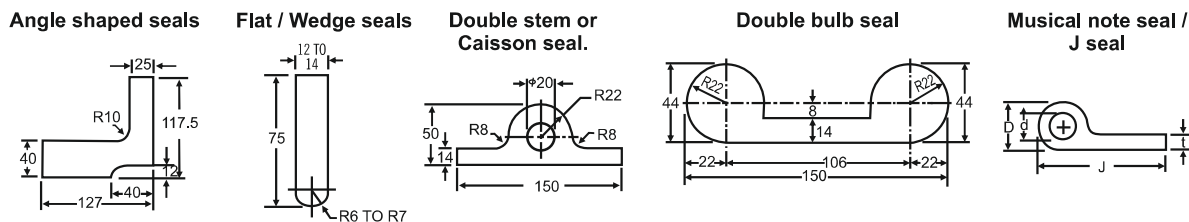
SCOPE:

Rubber gate seal as it is commonly called a flexible elastomeric, seal of different shapes used in Tunnel Spill Ways, Head Regulator of Hydro Channel, Forebay, Intake Structures, Bye – Pass Channel and Draft Tube of Power House etc.

CONSTRUCTION:

The material of construction as the basic polymers shall be natural rubber or a copolymer of Chloroprene, Butadine and Styrene or their blend. The basic polymers content shall be 70 (Seventy) percent, by volume and remainder shall consist of reinforcing Carbon Black, Zinc Oxide, Accelerators, Antioxidant, Vulcanizing agents and Plasticizers.

TYPES OF GATE SEAL



PHYSICAL PROPERTIES OF THE MATERIAL

- Ultimate tensile strength : 14.5 N/mm²
- Minimum Elongation : 450%
- Shore A Durometer hardness : 65±5
- Water absorption (in seven days) : <10%
- Ageing Result
(48 hour in oxygen at 70°C and 2.1 N/mm²)
- Tensile strength : >0.80
to initial value of the Tensile strength (before ageing)