

HWE CAST IRON SLUICE GATES (THIMBLE MOUNTED FLANGED BACK)

Sluice Gates are used for the control of flow of water, storm water, sewerage or effluent in almost all the cases, where a sluice valve can not be used. The discharge is generally in open through the gates.

Specification:

These gates are made generally as per IS: 13349. Gates are manufactured in square, rectangular and circular opening. The Sluice Gates are thimble mounted flanged back type with open top frame.

Thimbles are normally F type or E type. Length of Thimble is kept equal to the thickness of wall. If wall thickness is more than 300mm, thimble length is restricted to 300mm.

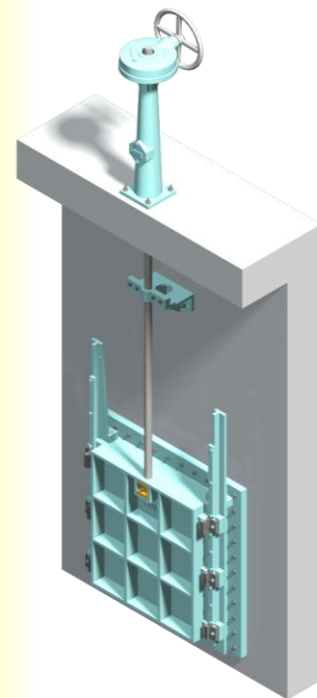
Gates are manufactured with rising or non rising spindles as per requirement of customers.

Faces of frame and gate are provided with non corrosive seats, normally of brass for water application and are hand scrapped for maximum water tightness.

Operation:

Manual operating mechanism is designed in such a way to enable a single person to operate gate with effort <20 Kgs. The frames may be self contained for the places, where provision of operating thrust can not be transferred to operating platform or head stock.

Gates are supplied with necessary extension rod, wall brackets, Head Stock and wheel to operate from a specified height according to site conditions.



Materials of Construction:

S. No.	Components	Materials
1.	Gate Frame, Shutter, Thimble, Headstock, Stem Guide Bracket, Wedging Device	Cast Iron IS:210 FG:200 Higher grades on demand
2.	Wedges, Wedge Facings, Sealing faces / Seat facings	Brass Phosphor Bronze Leaded Tin Bronze Bronze Leaded Gunmetal Stainless Steel
3.	Resilient Rubber Seal	Natural Rubber EPDM Rubber Neoprene Rubber
4.	Rubber Seal Retainer Bar	Mild Steel Stainless Steel
5.	Connecting Block / Stem Block / Thrust Nut	Cast Iron Leaded Tin Bronze Leaded Gunmetal Bronze
6.	Stem / Spindle	Mild Steel Stainless Steel
7.	Coupling	Cast Iron Mild Steel Stainless Steel
8.	Operating Nut / Stem Nut	Leaded Tin Bronze Leaded Gunmetal Bronze
9.	Fasteners & Studs	Mild Steel Stainless Steel
10	Anchor Bolts	Mild Steel Stainless Steel
11.	Yoke	Mild Steel Cast Iron Stainless Steel

Other M.O.C. can be provided on customer specific requirement.

Installation:

First Thimble is grouted in wall and concrete is allowed to mature. Thereafter Sluice Gate is bolted on it. Head stock is mounted on operating platform. Operating stem is mounted in between the gate and head stock. If required, stem guides are also fixed on wall at specified intervals.

Accessories:

Geared Head stocks to reduce the operating torque or changing direction of operation.

Power or Hydraulic actuators.

Though IS: 13349 specifies sizes from 200mm to 2500 mm, sizes from 150mm and upto any desired higher sizes are available.

Gates as per IS: 3042 are also available.

Manufactured By:

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