Flap Valves

Description

Ham Baker manufactures a comprehensive range of flap valves. Generally, most flap valves are of single door type but double door types are also available. The cast iron series of flap valves is constructed from traditional materials utilising the most modern production techniques to provide a robust and reliable product.

Flap valves can be supplied for wall, flange or thimble mounting applications.

The primary application of flap valves is for surface water drainage associated with rivers, estuaries and seawater outfalls to prevent reverse flow conditions.

Flap valves can be utilised on final effluent outfalls for sewage treatment plant to prevent flood damage within the works.

The flap valves should be positioned on the outfall structure to avoid the build-up of debris around the invert area which could prevent the valve operating correctly. Sufficient fall-away should be provided between the invert of the flap valve and the base of the outfall structure.

Flap valve application on sea water outfalls should be given careful consideration due to turbulence of flow across the flap, particularly when severe wave action is involved, resulting in dislocation of the flap relative to its seals. Wherever possible the flap valve should be located in a shielded position to minimise the effects of severe wave action.

Features and Benefits

The traditional material for flap valves is cast iron with its proven reputation for strength and durability. Ham Baker offer a range of materials each with their own features and benefits in addition to our range of cast iron flap valves.
Flap Valves

### Circular Cast Iron
- 80 to 2000mm diameter
- Metal to metal seals for durability and low leakage rates
- Robust construction for durability
- Wall or pipe mounted
- Double door flap valves available for reduced head loss
- Integral cast lifting lugs as standard
- Seals resistant to erosion by grit
- Double hung to ensure full face sealing

### Rectangular Cast Iron
- 400 to 2000mm square
- Metal to metal seals for durability and low leakage rates
- Robust construction for durability
- Wall or pipe mounted
- Double door flap valves available for reduced head loss
- Integral cast lifting lugs as standard
- Seals resistant to erosion by grit
- Double hung to ensure full face sealing

### Stainless Steel
- 400 to 2000mm square
- Corrosion resistant – available in a range of stainless steels
- Custom-built to suit project requirements
- Double hung to ensure full face sealing
- Low operating (cracking) head due to light weight
- Reduced maintenance

### Circular Composite Plastic
- 100 to 600mm diameter
- Low cost
- Flush face helps prevent debris build-up
- Resilient seating with low head loss
- Corrosion resistant
- Low operating (cracking) head due to light weight
- Wall or flange mounted
- 100 and 150mm diameter totally maintenance free – no moving parts
- Reduced maintenance

### Rectangular Composite Plastic
- 400 to 2000mm square
- Low cost
- Flush face helps prevent debris build-up
- Custom built to suit project requirements
- Corrosion resistant
- Low operating (cracking) head due to light weight
- Double hung to ensure full face sealing
- Replaceable mechanically fixed seals
- Reduced maintenance

### Flexible
- Up to 1500mm square
- No maintenance required
- Suitable for direct wave action
- Corrosion resistant
- Hinge forms integral part of door

Flow Control Division

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