Contained in this section:

**Weir Valves**
- Features and Benefits
- Body Selections
- Diaphragm Selections
- Bonnet Assembly Select

**Straightway Valves**
- Features and Benefits
- Body Selections
- Diaphragm Selections
- Bonnet Assembly Selections
Features and Benefits

**Modes of Operation**

**Weir Type Valve**
- Open
- Throttling
- Closed

**Features and Benefits**

- Versatile and Economical
  - Broad range of body materials and diaphragm materials.
  - Metals
  - Plastic Linings
  - Rubber Linings
  - Glass Linings
  - Solid Plastic
  - Choose from 12 grades of Elastomers or PTFE Diaphragms

**Modes of Operation**

**Straightway Valve**
- Open
- Closed
1 Adjustable Travel Stop
- Prevents overclosure of the valve and prolongs diaphragm life. The adjustability feature assures that leak-tight shutoff can be maintained throughout the valve’s life.

2 Bronze Bushing
- Reduces turning torque and enhances cycle life in “dirty” atmospheres.

Sealed Bonnet
- Offers secondary process containment to control fugitive emissions.
- Supplied with leak detection port as standard.

Floating Tube Nut*
- Prevents point loading of the stud on PTFE diaphragms, which enhances diaphragm life, particularly in high temperature and high cycle applications.
- 100% Seat & Shell Testing
- All valves are pressure tested bubble tight prior to shipment. No visible leakage is allowed.
- Extensive selection of body and diaphragm materials and actuation packages.
- Allows optimum selection of materials for service conditions, often without expensive upgrades.

3 Bonnet Isolation
- The diaphragm isolates the working parts of the valve from process fluids.

4 Streamlined Fluid Passage
- The smooth contoured body has minimal pockets, cavities or dead spaces, which prevent accumulation or stagnation of process fluids or contaminants.

No Packing Gland or Packing
- No more packing gland adjustment required or stem packing leakage problems for improved control of fugitive emissions.

Positive Leak Tight Closure
- Bubble tight closure is provided in accordance with MSS SP–88.

In-Line Maintenance
- Easily maintained when required for reduced downtime and lower cost of ownership.

5 Molded Closed 2-Piece PTFE Diaphragm*
- Diaphragms are molded to the exact contour of the weir for superior shutoff capabilities.
- 2-piece configuration eliminates delamination of PTFE which is common to 1-piece configurations.
- Superior flex life
- Reduced permeation
- Excellent chemical resistance

6 Line-Lok*
- Unique feature in all plastic lined weir valves that prevents liner flexing over the weir, which reduces the potential for liner cracking.

* Weir type valve only