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## Single-Stage Horizontal Split Case Pumps

### 2800 & 5800 Series

Capacities: 100 to 75,000 GPM

Heads: 20 to 700 feet

**Applications** ... Fairbanks Morse single-stage horizontal split case pumps are of rugged, heavy-duty construction designed to successfully operate in a multitude of general liquid pumping and booster applications, and long reliable service with literally zero maintenance costs. These applications can be found in power plants, steel mills, chemical plants, paper mills, refineries, cooling and heating systems and water booster service.

The successful application of horizontal split case pumps requires the consideration of many elements. In addition to knowing the capacity and discharge head requirements, other factors which need to be evaluated include:

- Net Positive Suction Head Available (NPSHA) and submergence
- Capacity operating range
- Horsepower required throughout the pump's operating range
- Suction pressure

Other considerations include:

- Parameters of the liquid being pumped
- Allowable solid size
- Elevation
- Driver requirements
- Material of construction

**Features** ... Parameters of horizontal split case pumps require the units to be available in either horizontal mounted or vertically mounted configurations to meet user needs. Fairbanks Morse meets these demands by providing horizontal mounted pumps in discharge sizes from 2" to 36" in diameter. Vertically mounted pumps are available in discharges sizes from 3 " to 10" in diameter.

Material of construction include cast iron, bronze, and stainless steel, or other machinable materials. Wear rings for both the casing and impeller are available to provide a renewable surface. Also, renewable shaft sleeves are standard for those portions of the shaft through the stuffing box. Shafts can be sealed with packing or mechanical seals.

Split case pumps are easy to maintain and make it easy to remove the rotating assembly without disturbing the suction or discharge piping. Long bearing life is normal in Fairbanks Morse pumps



due to its smooth operation, balanced loading and locked-in-place rotating assembly. Bearings are typically grease lubricated but oil lubrication is a standard option on many units.

Impellers are dynamically and hydraulically balanced, one-piece castings. Their large double suction design virtually eliminates axial thrust loads. Inlet losses are reduced and high suction lifts are capable as a result of this Francis vane impeller design. Extremely smooth contoured passageways provide high efficiency and quiet operation.

Horizontal split case pumps can be driven by numerous types of drives including internal combustion engine, steam turbine, or horizontal motors.

**Our special services** ... at Fairbanks Morse we will design, research, test and manufacture horizontal split case pumps for special requirements. In many cases our standard pumps can be easily modified to meet these special requirements.

**Our quality** ... begins with total source control coupled with our investment in and commitment to highly specialized, computerized machinery. Fairbanks Morse manufactures horizontal split case pumps that must meet the exacting standard of our design engineers.

**Our commitment** ... at Fairbanks Morse is based on our longevity, distinctive products, market leadership, and customer service and is the direct result of the quality and dedication of our personnel. Our horizontal split case pumps are machined, built, and tested by our skilled shop personnel who average over 23 years of experience. Working as a team, our people continually explore new ways to better serve our customers. Product quality, dependability, and innovation are all part of the Fairbanks Morse commitment to excellence.