

VMX
Vertical, Multistage,
Formed Stainless
Steel Pumps

*Designed for low flow,
 high head applications
 with the advantages of
 vertical in-line piping*

Formed Stainless Benefits

Flowserve's line of 304L stainless steel pumps is hydraulically formed rather than stamped. This results in true pump volutes with fewer welded parts, fewer rust points and fewer potential leak paths. Designed for dependable performance and rugged, continuous service, they offer superior quality, increased efficiencies and exceptional value.

When the service demands corrosion resistance, Flowserve formed stainless steel pumps provide the solution along with greater peace of mind.

VMX Features

- Flows to 118 gpm (27m³/h) heads to 825 ft (251m)
- Standard NEMA motors
- Air vent in casing cover for effective venting with the elimination of air entrapment and dry run
- Self-aligning, floating design liner ring constructed of EPD bonded to stainless steel to prevent swelling at high temperatures
- Standard tungsten carbide lower pump bearings and sleeves for maximum operating life
- Keyed direct drive pump and motor shafts for positive, reliable power transmission with no adjustments necessary
- Flexible floating outer casing for thermal expansion in hot water applications to prevent deformation from pressure fluctuations
- Thrust bearing design on 3 hp (2.2 kW) and larger pumps to handle axial thrust loads
- Up to 16 stage to meet required service conditions



- Anti-erosion measures – a dish-shaped insert fitted to the intermediate casing to promote smooth flow and prevent high velocity areas that accelerate erosion
- Square-edge spline shaft for positive location and drive of impellers eliminating wear from sliding between faces
- Dimensions & flanges – installation to market accepted dimensions for easy upgrade of existing installations
- Silicon, carbon, Viton® mechanical shaft seal
- Positive sealing O-rings between intermediate casings

VMX Applications

- Water supply
- Reverse osmosis
- Water boosting
- Washing systems
- Fire fighting
- Water treatment plants
- Boiler feed
- Hot & cold water
- Circulation
- Irrigation
- Sprinkler systems
- Filtration
- Heat exchangers

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VMX Specifications



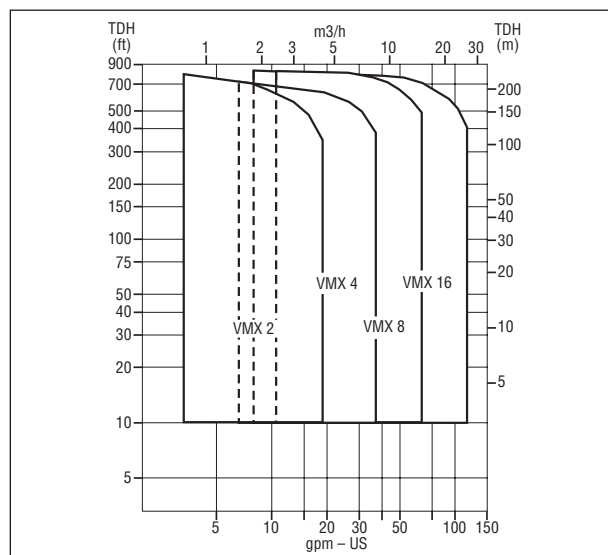
Flowserve's family of formed 304L stainless steel pumps includes:

- Horizontal, end suction centrifugal pumps with flows to 380 gpm (86 m³/h) and heads to 280 ft (85 m)
- Submersible sump, effluent or sewage pumps with power to 2 hp (1.5 kW) and solids handling to 2 in (50 mm) spherical
- Vertical multistage pumps with power to 25 hp (18.6 kW) and heads to 825 ft (251 m)

| | | |
|------------------------------|--------------------------------------|--|
| Size | Suction | ANSI 250 lb 1-1/4 in (32 mm) 4 bolt flange for VMX 2 and 4 2 in (50 mm) 8 bolt flange for VMX 8 and 16 |
| | Discharge | 1-1/4 in (32 mm) for VMX 2, 4 and 2 in (50 mm) for VMX 8 and 16 |
| Range of Power | 1/2 hp (0.37 kW) to 25 hp (18.6 kW) | |
| Range of Performance | Capacity | 4 gpm (0.90 m ³ /h) to 118 gpm (27 m ³ /h) at 3450 rpm |
| | Head | 27 ft (8m) to 825 ft (251m) at 3450 rpm |
| Liquid Handled | Type of liquid | Clean water |
| | Temperature | 5°F (-15°C) to 248°F (120°C) |
| | Working pressure | 230 psi (1585 kPa) to 360 psi (2480 kPa) |
| Speed | 3600 rpm | |
| Materials | Impeller (closed centrifugal) | 304L Stainless Steel |
| | Intermediate casing | 304L Stainless Steel |
| | Bottom casing | 304L Stainless Steel |
| | Casing cover | 304L Stainless Steel |
| | Outer casing | 304L Stainless Steel |
| | Shaft | AISI 316 |
| | Liner ring | EPDM, 304L Stainless Steel |
| | Shaft seal | Mechanical – Silicon, Carbon, FPM |
| | Motor bracket | Cast Iron |
| | Base | Cast Iron |
| | Bearing | Sealed Ball Bearing, Tungsten Carbide |
| Direction of Rotation | Clockwise when viewed from motor end | |
| Motor | Type | NEMA C - TC frame |
| | Speed | 60 Hz, 3450 rpm (2 poles) |
| | Three-Phase | 208-230/460V |
| | Motor Casing | Aluminum |
| Test Standard | ISO 2548 Class C | |

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VMX Selection Chart



Your local Flowserve representative:

Flowserve has numerous manufacturing, sales, and service operations throughout the world. Please contact one of the regional centers to determine the location of the nearest office.