



Making fluid energy work for you™

**MSD**  
HIGH PRESSURE  
PUMP

## MSD Series Multistage Centrifugal High Pressure Pump

### Benefits

- ✓ High Efficiency: Up to 87%
- ✓ High Inlet Pressure Option: < 80 bar
- ✓ Flow Rate: 20–1080 m<sup>3</sup>/h (88–4755 gpm)
- ✓ Pressure: < 82 bar (1200 psi)  
\*Higher pressures can be achieved with custom models
- ✓ Low Maintenance Design
- ✓ Easy Installation and Rapid Commissioning
- ✓ Smooth and Quiet Operation
- ✓ 18 Month Warranty as Standard



High Flow Model

Low Flow Model

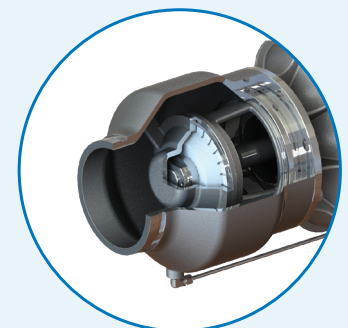


### Features

- Patented Water Bearing™ Technology
- All Super Duplex Investment Cast Construction
- Balanced Impellers
- Rotatable Inlet Connection
- Mechanical Seal Cartridge Easily Accessible
- Precision Leveling Feet for Easy Alignment

### Exclusive Water Bearing™ Technology

- Handles the entire thrust load generated by the impellers
- Shaft is kept in tension to eliminate buckling
- Product water provides the lubrication, therefore grease or oil maintenance is eliminated



# Maximum Performance Range 2950 rpm

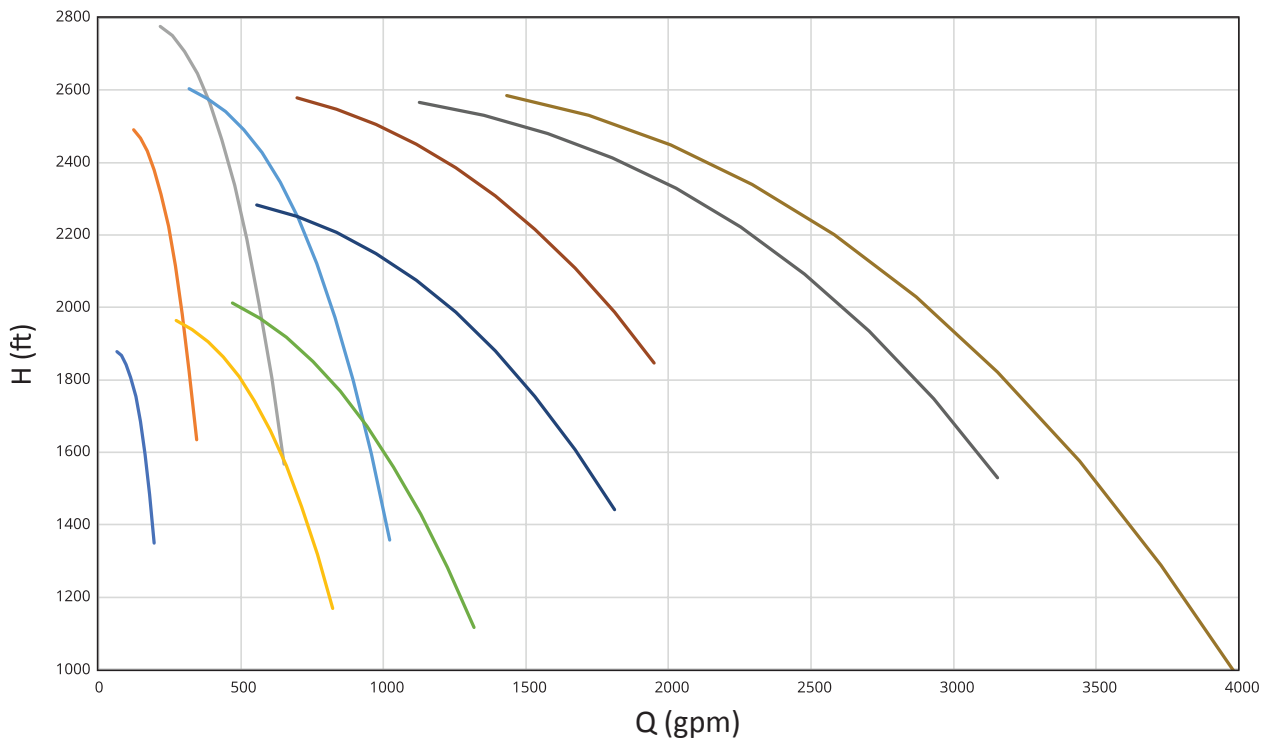
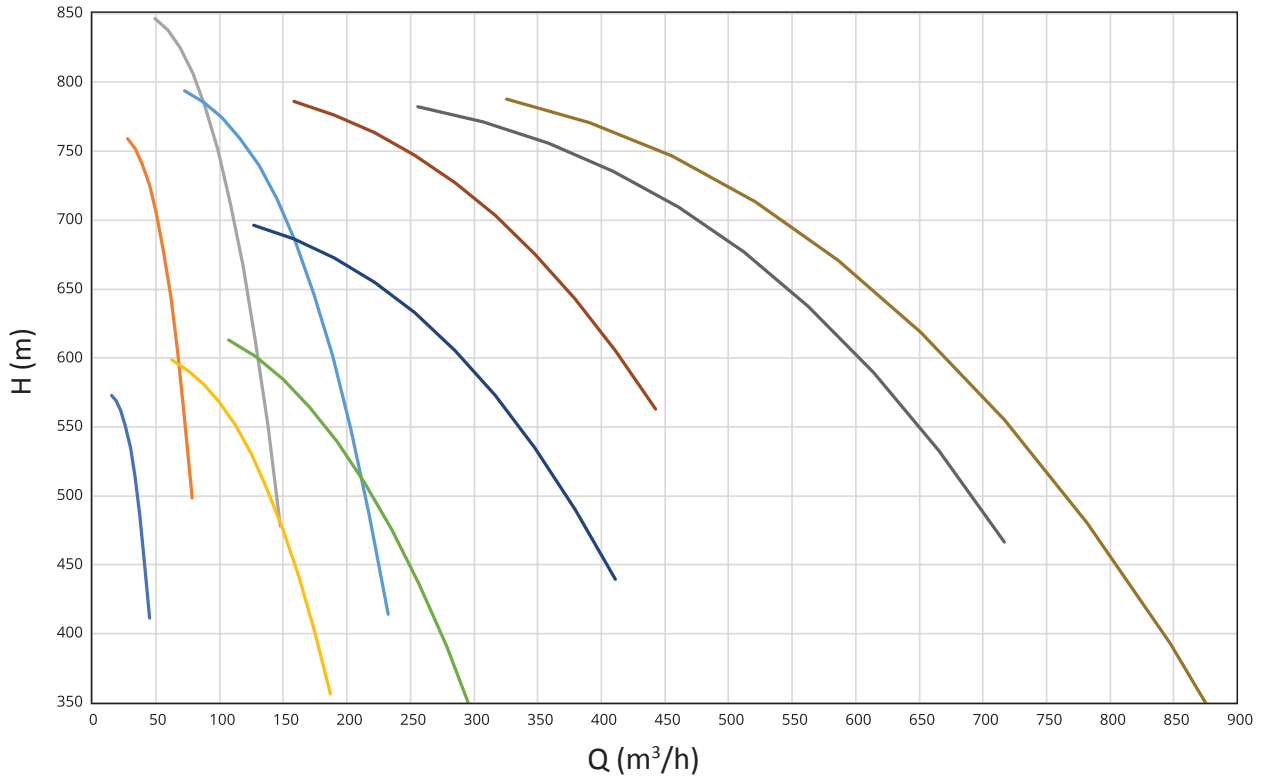
Pressure can be varied using variable frequency drives.

Maximum pressure may be limited by pressure ratings of RO equipment.

\*Higher pressures can be achieved with custom models

Model	Min. Flow (m <sup>3</sup> /h)	Max. Flow (m <sup>3</sup> /h)
MSD-40	20	56
MSD-70	35	98
MSD-130	65	182
MSD-160	80	224
MSD-200	100	280

Model	Min. Flow (m <sup>3</sup> /h)	Max. Flow (m <sup>3</sup> /h)
MSD-270	135	378
MSD-350	175	490
MSD-400	200	560
MSD-650	325	877
MSD-800	400	1080



# Maximum Performance Range 3550 rpm

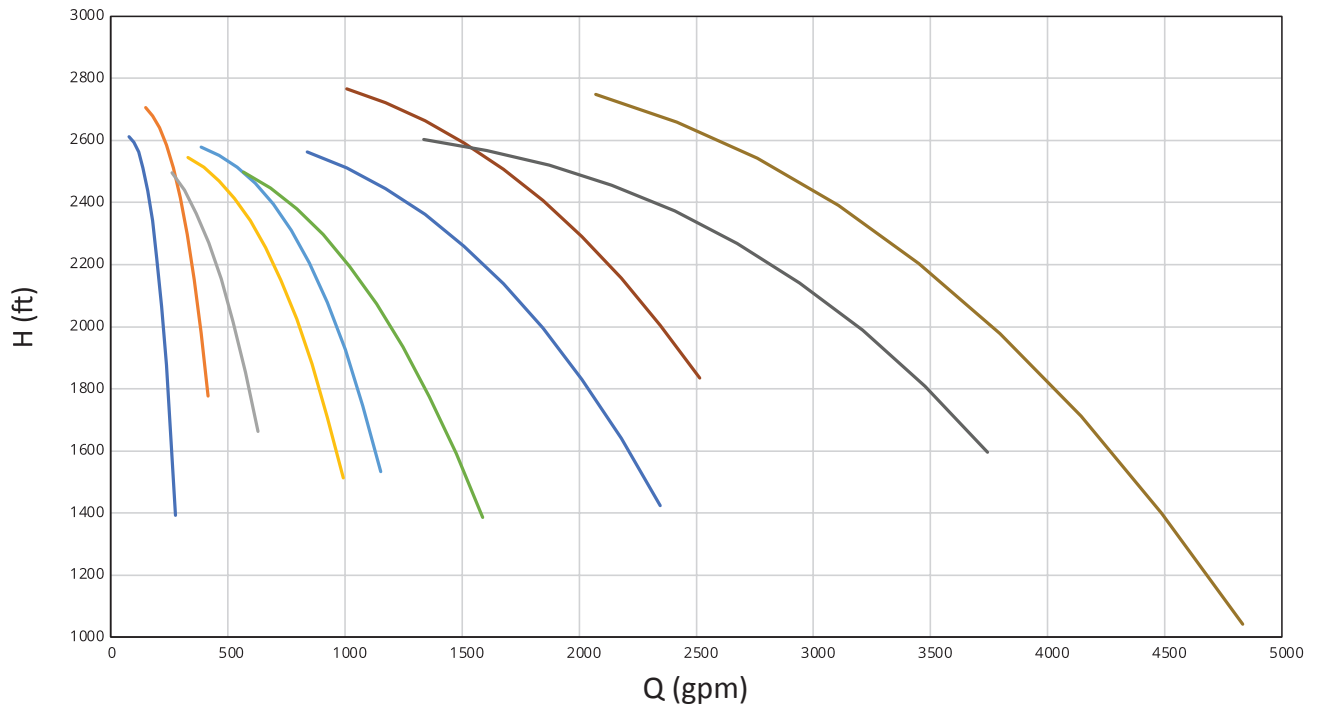
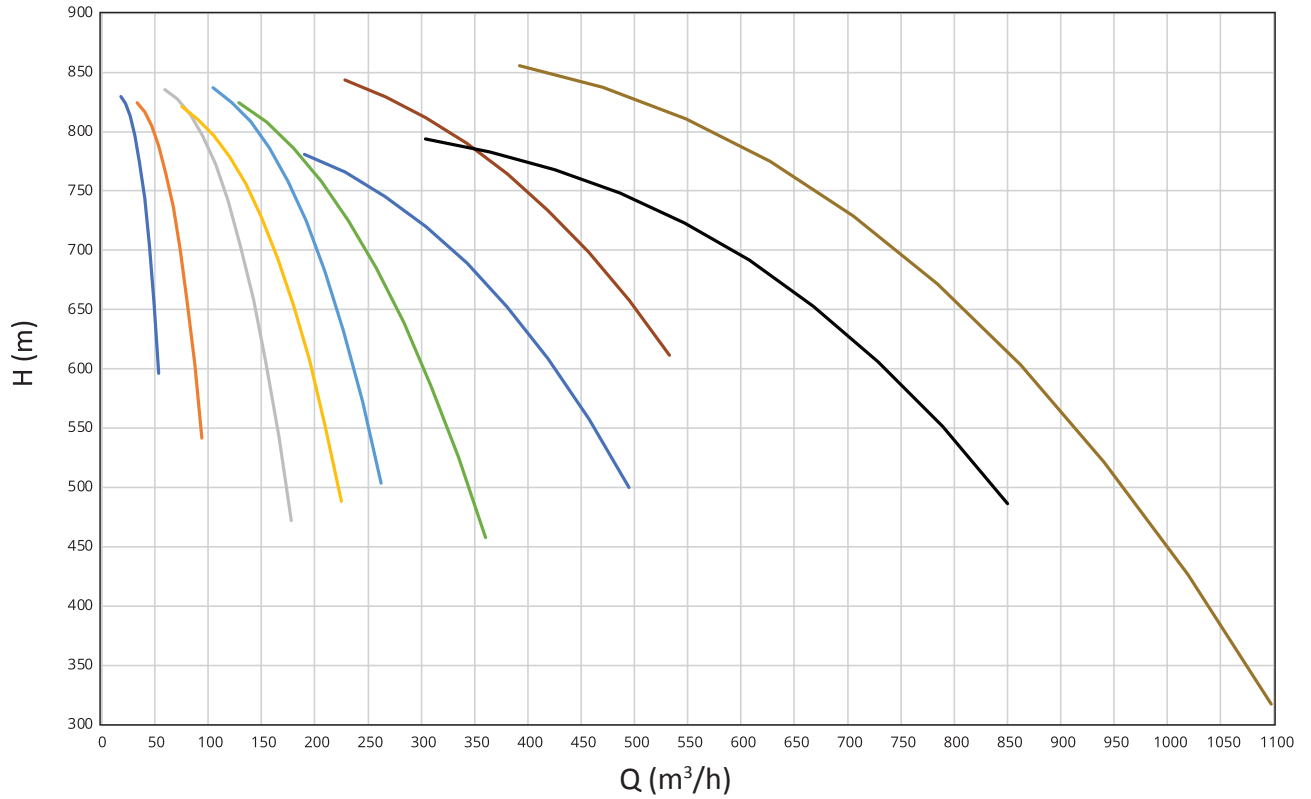
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## Best Value for High Pressure Pumping

- Large capacity range, energy efficiency and low maintenance design
- Rotatable inlet connection and precision leveling feet for quick alignment
- Baseplates are optional and can be custom manufactured
- Mechanical seal sits in a removable cartridge for easy replacement
- Balance disc can be accessed with minimum disassembly
- Resistant materials
- Large capacity range
- World-leading energy efficiency
- Low maintenance design

## Horizontal, Multistage Centrifugal Pump

### OPERATING ENVELOPE

**Flow Rate:** 20-1080 m<sup>3</sup>/h (88-4755 gpm)

**Pressure:** < 82 bar (1200 psi)

**Liquid:** Seawater, Brackish Water, Potable Water (20 microns)

**Temperature:** < 70 °C (158 °F)

### MATERIALS

**Shell:** Super Duplex SS

**Impeller:** Super Duplex SS

**Shaft:** Super Duplex SS

**Bearing:** Non-metallic

18 Month Warranty

**Shaft Coupling:** Flexible Disk Type

**Motor:** Standard 2 Pole NEMA or IE

**Shaft Coupling:** Flexible Disk Type

### OPTIONAL FEATURES

Flanged Connections

High Pressure Seal Carrier

Contact FEDCO for your custom option requirements

### REVERSE OSMOSIS APPLICATIONS

Seawater and Brackish Water    Oil & Gas

Industrial/Municipal    Produced Water

Hotels/Islands/Resorts    Water Reuse

Marine

### SYSTEM UPGRADES

Contact FEDCO to upgrade your existing reverse osmosis desalination plant to state-of-the-art pumps and energy recovery devices.

FEDCO has a broad range of feed pumps, booster pumps, and energy recovery devices for seawater and brackish water reverse osmosis applications.



Making fluid energy work for you™

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