

MSD Series Multistage Centrifugal High Pressure Pump

MSD
HIGH PRESSURE
PUMP

Benefits

- ✓ High Efficiency: Up to 87%
- ✓ High Inlet Pressure Option: < 80 bar
- ✓ Flow Rate: 20–1080 m³/h (88–4755 gpm)
- ✓ Pressure: < 82 bar (1200 psi)
- ✓ 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



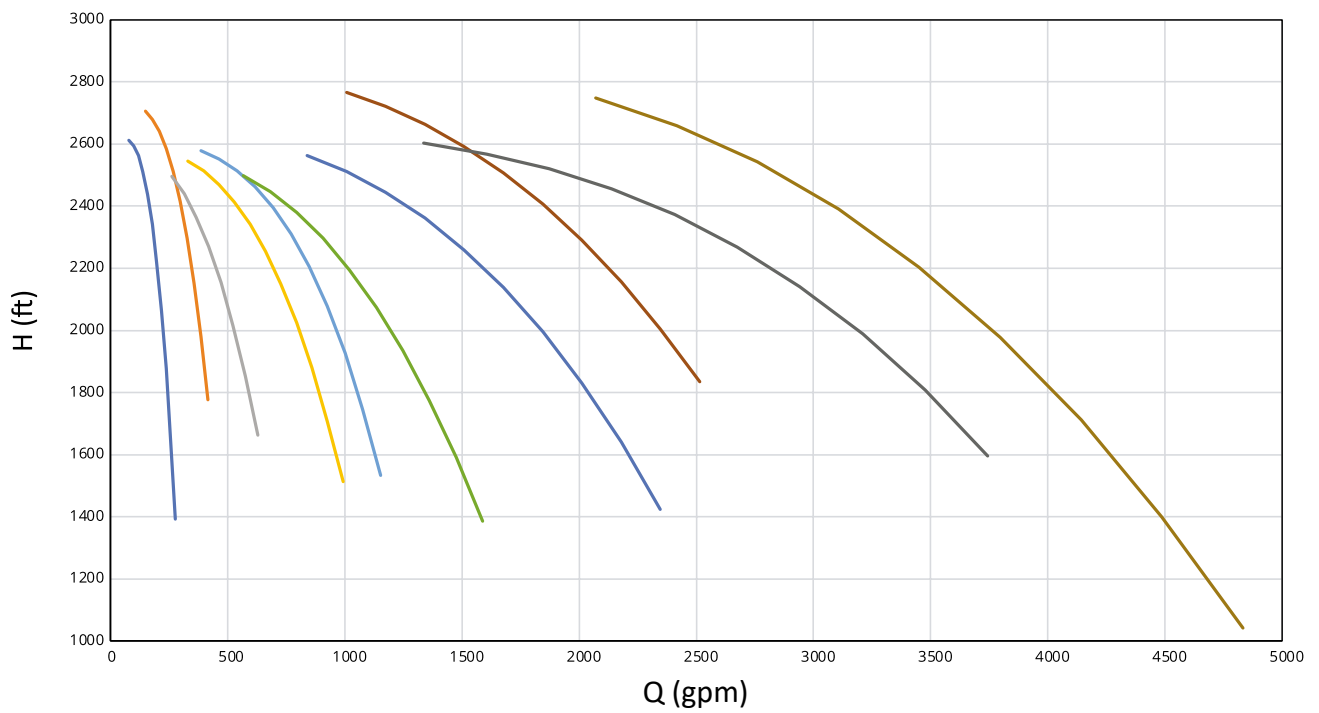
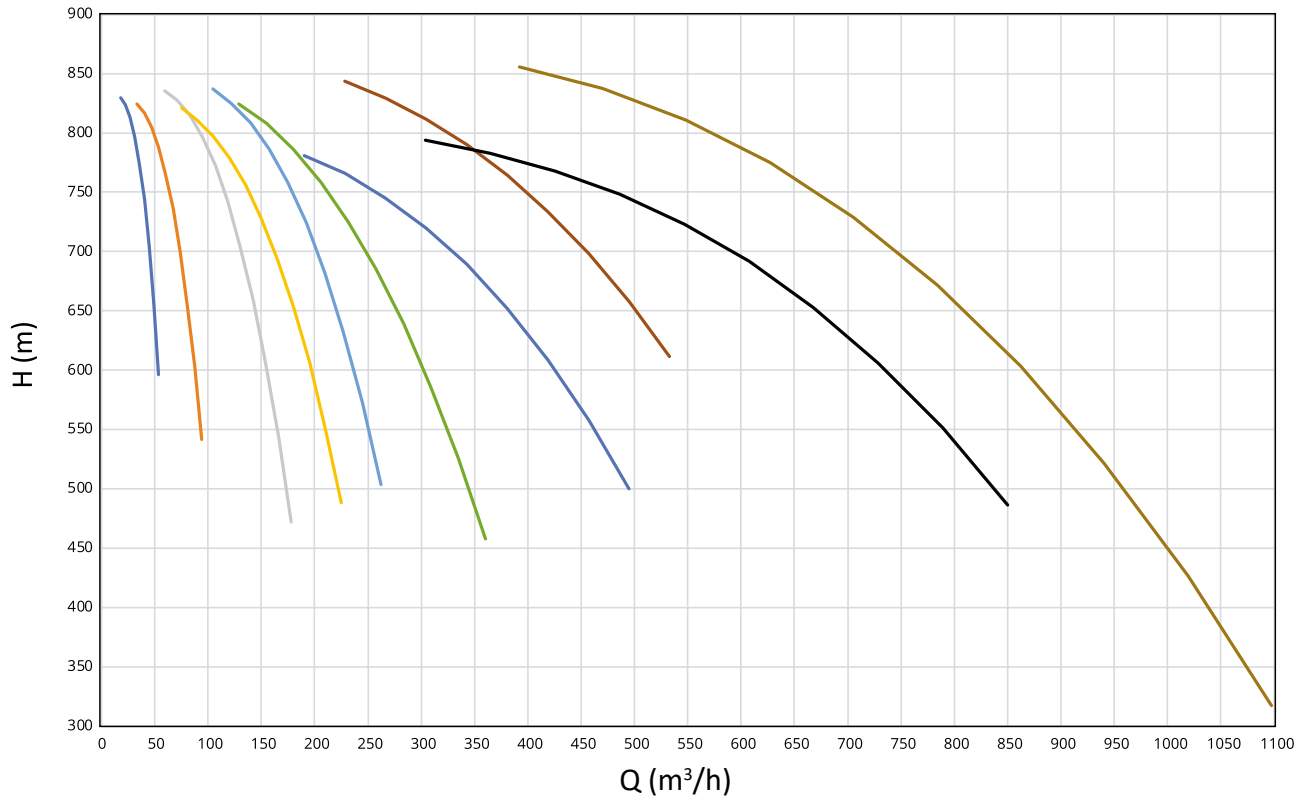
Maximum Performance Range 3550 rpm

Pressure can be varied using variable frequency drives.

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

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



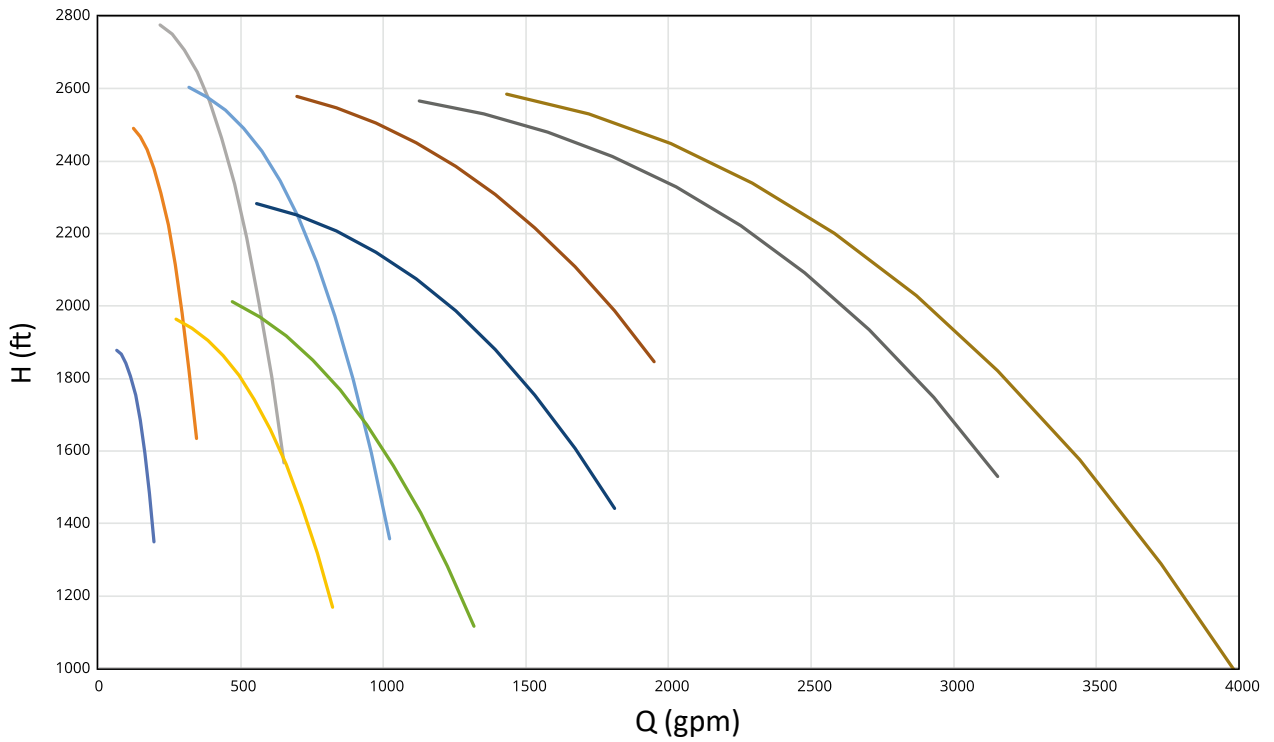
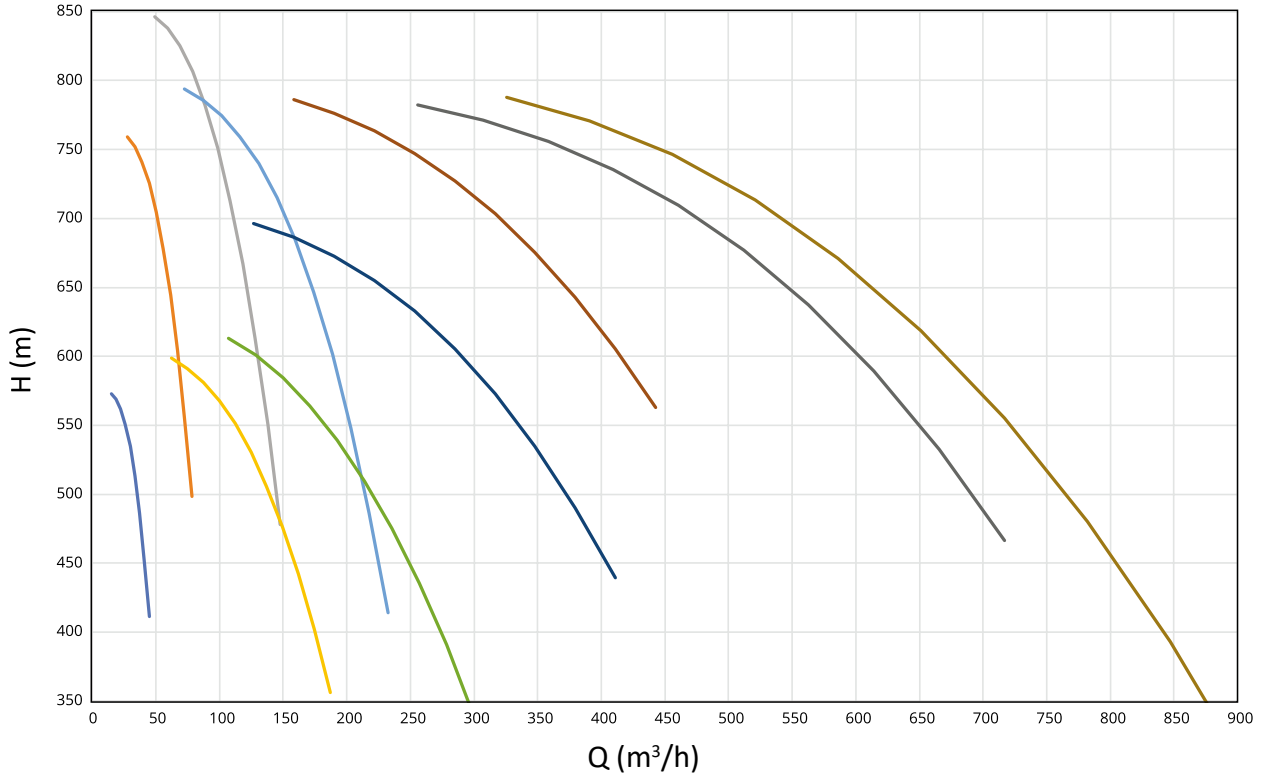
Maximum Performance Range 2950 rpm

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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 m³/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.

