



# MYERS® MODELS 8SM AND 8SMX 8" SUBMERSIBLE SOLIDS HANDLING WASTEWATER PUMPS



STANDARD (8SM) AND HAZARDOUS LOCATION (8SMX) CONSTRUCTION

### MYERS® MODELS 8SM AND 8SMX

## 8" Submersible Solids Handling Wastewater Pumps

## The Myers 8SM Submersible Solids Handling Sewage Pumps are Designed Especially for High Flow Applications such as:

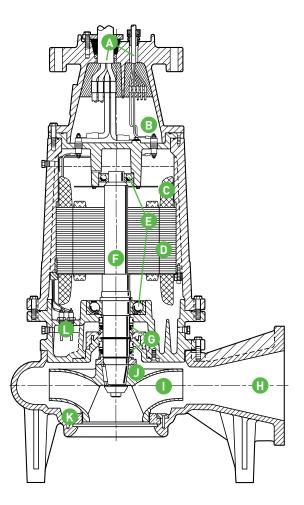
Large municipal lift stations, treatment plants, transfer stations and dewatering. A quick removal type rail system is available to simplify installation and maintenance. The 8SM's ability to handle solids up to 3 inches in diameter make it ideal for most high flow wastewater applications. For more information, contact your Myers distributor or the Myers sales office at 419-289-1144.

Product Capabilities							
Capacities To	2320 gpm	8800 lpm					
Heads To	260 ft.	79 m					
Solids Handling	3 in.	76 mm					
Liquids Handling	raw unscreened sewage,						
	drain water, effluent						
Intermittent Liquid Temp.	up to 140°F	up to 60°C					
Winding Insulation Temp. (Class H)	356°F	180°C					
Available Motors	1750 RPM						
	75, 100, 125 HP						
	460 & 575 volts						
	3 phase, 60 Hz						
Std. Third Party Approvals	CSA						
Optional Approvals	FM Class 1, Groups C & D						
	(8SMX only)						
Acceptable pH Range	6 – 9						
Specific Gravity	.9 – 1.1						
Viscosity	28 – 35 SSU						
Discharge, Horizontal	8 in.	203.2 mm					



Construction Materials								
Motor Housing, Seal Housing,	cast iron, Class 30,							
Cord Cap and Volute Case	ASTM A48							
Impeller	ductile iron, Class 65, ASTM A536							
Power and Control Cord	S00W, W							
Double Tandem Mechanical Seals	Standard – carbon & ceramic Optional – lower tungsten carbide							
Pump, Motor Shaft	416 SST							
Fasteners	300 series SST							
Case Wear Ring	bronze							

## Pump Features and Applications



#### A. Cable Entry System

Cable jackets sealed with clamped, rubber grommet. Individual wires sealed with epoxy to prevent wicking in case of cable damage.

#### **B.** Terminal Board

Provides easy connections from power and control cables to stator. Allows voltage change in field on dual winding motors.

#### **c.** Heat Sensor on Motor Winding

Opens to de-energize motor starter if winding temperature reaches 150°C. Automatic reset.

#### **D.** Motor Stator

Oil-filled for continuous lubrication of bearings and seals. Class H insulation.

#### **E.** Ball Bearings

Upper and lower ball bearings.

#### **F.** Heavy 416 SST Shaft

Reduces deflection from impeller radial loads. Tapered and keyed to accept impeller.

## **G.** Double Tandem Shaft Seals Protect motor, operate in clean oil.

#### H. Horizontal Discharge Volute Case 8" 125 lb. flange.

## I. High Efficiency Impeller Two-vane, rounded port, solids handling design. Passes 3" spherical solids

#### J. Pump-out Vanes

Help keep trash from seal, reduces pressure at seal faces.

#### **K.** Bronze Wearing Ring

Reduces bypass leakage and wear. Replaceable to restore original running clearances and pump efficiencies.

#### L. Dual Seal Leak Probes

Detect water in seal housing. Activates warning light in control panel.

#### High Efficiency Hydraulic Design Cuts Pumping Costs and Extends the Life of the Pump.

- Two-vane, rounded port impeller handles 3" solids with ease at high operating efficiencies.
- Produces high heads and flows.

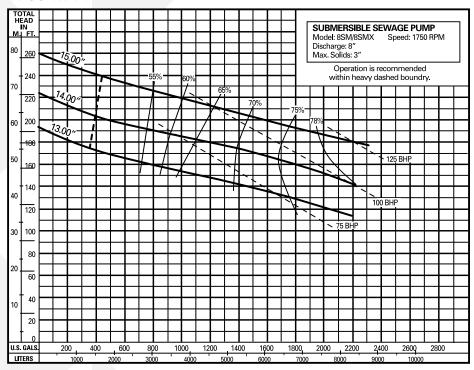
## Durable Motor Will Deliver Many Years of Reliable Service.

- Class H insulation.
- Continuous duty/VFD rated.
- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- Internal thermal overload protection.
- Double tandem shaft seals prevent sewage from entering motor.
- Internal seal leak probes warn of moisture entry.
- Triple sealed power and control cables.

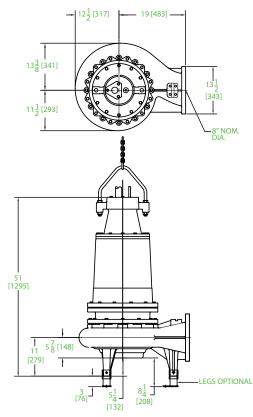
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## Performance Data and Dimensions

#### 1750 RPM



#### [Dimensions in mm]



Ί	Available	e Models	Motor Electrical Data												
	Standard	Hazardous Location	HP	Volts	Phase	Hertz	Start Amps	Run Amps	Service Factor Amps	Run kW	Service Factor kW	Start KVA	Run KVA	NEC Code Letter	Service Factor
	8SM750M4-43	8SMX750M4-43	75	460	3	60	540	101.8	122.2	64.2	77.0	430	81.0	G	1.2
	8SM750M4-53	8SMX750M4-53	75	575	3	60	432	81.4	97.8	64.2	77.0	430	81.0	G	1.2
	8SM1000M4-43	8SMX1000M4-43	100	460	3	60	725	129.0	155.0	85.7	103.0	578	103.0	G	1.2
	8SM1000M4-53	8SMX1000M4-53	100	575	3	60	580	103.2	124.0	85.7	103.0	578	103.0	G	1.2
	8SM1250M4-43	8SMX1250M4-43	125	460	3	60	725	165.0	175.0	108.0	115.0	578	131.0	G	1.1
	8SM1250M4-53	8SMX1250M4-53	125	575	3	60	580	132.0	140.0	108.0	115.0	578	131.0	G	1.1

Motor Efficiencies and Power Factor												
Motor Efficiency %							Power Factor %					
HP	Phase	Service Factor Load	100% Load	75% Load	50% Load	Service Factor Load	100% Load	75% Load	50% Load			
75	3	87.1	87.1	87.3	83.5	79.1	79.2	79.1	79			
100	3	87.0	88.0	87.0	84.0	83.4	83.4	79.2	77			
125	3	86.0	86.3	88.0	87.0	82.5	82.0	80.0	78			



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