



MODELS 3R AND 3RX

3" SOLIDS HANDLING WASTEWATER PUMPS



STANDARD (3R) AND HAZARDOUS
LOCATION (3RX) CONSTRUCTION

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MYERS® MODELS 3R & 3RX

Solids Handling Wastewater Pumps

The Right Choice

Myers® 3R and 3RX (hazardous location) submersible wastewater pumps are the right choice when difficult to pump fibrous or stringy solids are to be expected. The 3R/3RX series provides smooth, vibration-free operation when operating at heads higher than peak efficiency. For use in commercial lift stations, treatment plants and industrial waste applications. Myers offers a complete line of wastewater pumps, lift-out rail assemblies, controls and accessories to meet your needs. Call your Myers distributor or the Myers sales office at 419-289-1144 for more details.

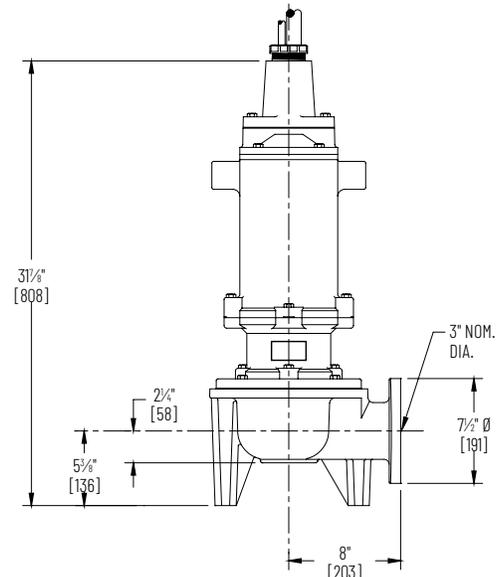
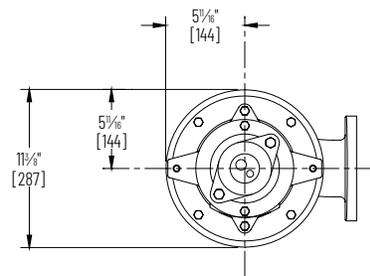


| Product Capabilities | | |
|---|--|------------|
| Capacities To | 300 gpm | 18.9 lps |
| Heads To | 40 ft. | 12.192 m |
| Solids Handling (dia.) | 3 in. | 76.2 mm |
| Liquids Handling | raw unscreened sewage, fibrous wastewater, effluent, storm water | |
| Intermittent Liquid Temp. | up to 140°F | up to 60°C |
| Winding Insulation Temp. (Class F) | 311°F | 155°C |
| Motor Electrical Data | 1750 RPM 2 - 5 HP, 230V, 1Ø, 60 Hz 2 - 5 HP, 200/230/460/575V, 3Ø, 60 Hz | |
| Std. Third Party Approvals | CSA | |
| Optional Approvals | FM Class 1, Groups C & D (3RX only) | |
| Acceptable pH Range | 6 - 9 | |
| Specific Gravity | .9 - 1.1 | |
| Viscosity | 28 - 35 SSU | |
| Horizontal Discharge Flanged Centerline | 3 in. 125 lb. ANSI | 76 mm |

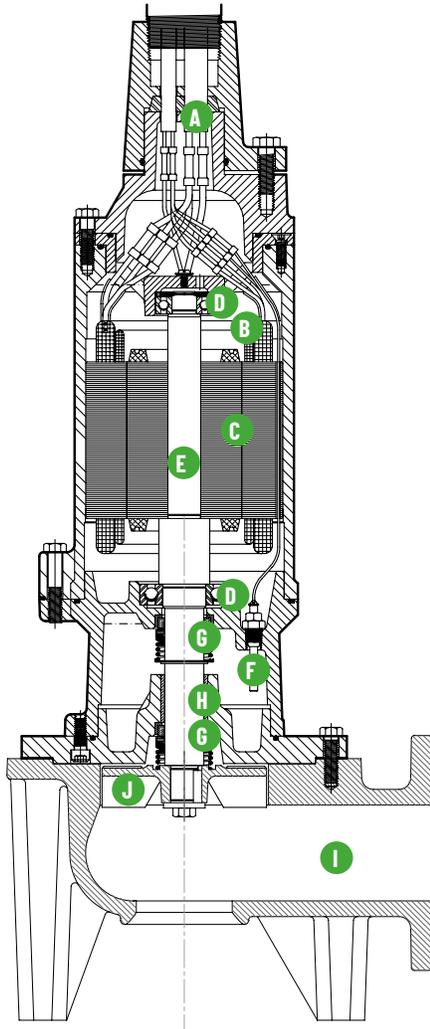
Note: Consult factory for applications outside these recommendations.

| Construction Materials | |
|---|----------------------------------|
| Motor Housing, Seal Housing, Cord Cap and Volute Case | cast iron, Class 30, ASTM A48 |
| Recessed Impeller | ductile iron, Class 65 ASTM A536 |
| Power Cord | S00W, W |
| Control Cord | S00W |
| Mechanical Seals | double tandem, type 21 |
| Standard | carbon and ceramic |
| Optional | lower tungsten, carbide |
| Pump, Motor Shaft | 416 SST |
| Fasteners | 300 series SST |

DIMENSIONS [Dimensions in mm]



Advantages by Design



A. Cable Entry System

Provides double seal protection. Cable jacket sealed by compression grommet. Individual wires sealed by epoxy potting.

B. Heat Sensor

Protects motor from burnout due to excessive heat from any overload condition. Automatically resets when motor has cooled.

C. Motor Stator

Heat shrunk into housing for perfect alignment and best heat transfer. Oil-filled motor conducts heat and lubricates bearings.

D. Ball Bearings

Upper and lower ball bearings support shaft and rotor and take axial and radial loads.

E. Heavy 416 SST Shaft

Corrosion resistant.

F. Seal Leak Probes

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

G. Shaft Seals

Double tandem mechanical shaft seals protect motor. Oil-filled seal chamber provides continuous lubrication.

H. Sleeve Bearing

Takes radial shock load; provides flame path.

I. Volute Case

Handles 3" solids. Completely open from inlet to discharge, 3" ANSI 125 lb. flange.

J. Recessed Impeller

Handles stringy trash and slurries without clogging or binding. Pump-out vanes help keep trash from seal; reduces pressure at seal faces.

Passes stringy trash, fibrous wastes, slurries, and other difficult to pump solids that standard enclosed or semiopen impellers cannot.

- Recessed impeller design has completely open passage in volute.
- Pumping action is by Vortex; solids cannot get caught in impeller volute.
- Operates without vibration or cavitation over entire performance curve. Operates near shut-off without harming pump.

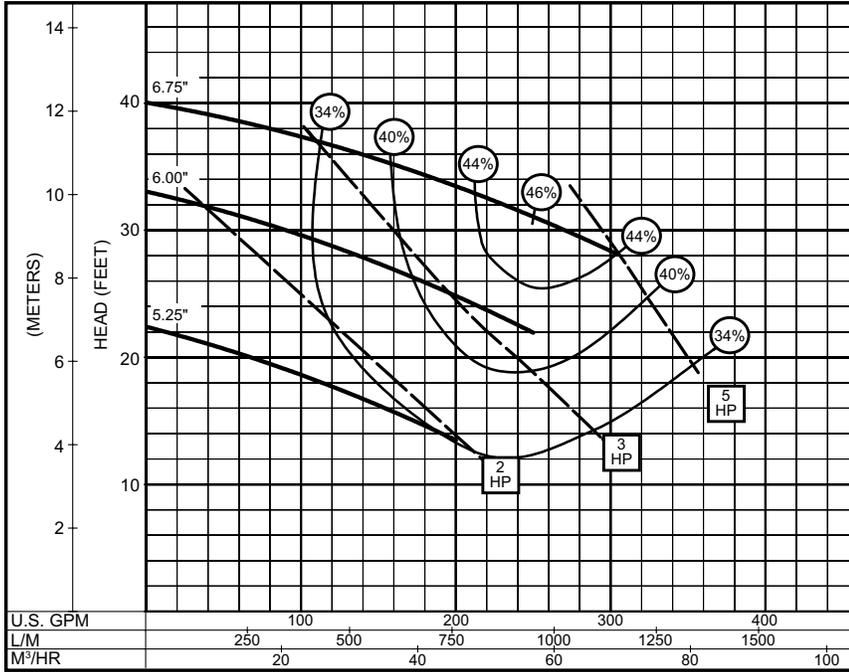
Durable motor will deliver many years of reliable service.

- Recessed impeller greatly increases bearing life by reducing radial load.
- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- Heat sensor thermostats embedded in windings protect motor from overheat conditions.
- Seal leak probes warn of moisture entry; help prevent costly motor burnout.

Available with optional FM approval for use in Class 1, Groups C and D hazardous locations (3RX only).

Performance Data

1750 RPM



Pump performance is based on clear water (1.0 specific gravity @ 68°F) and pump fluid end (hydraulic) efficiency. Motor data based on 40°C ambient temperature.

| Available Models | | 1750 RPM Motor Electrical Data | | | | | | | | | | |
|------------------|--------------------|--------------------------------|-------|-------|------------|----------|---------------------|--------|-----------|---------|-----------------|----------------|
| Standard | Hazardous Location | HP | Volts | Phase | Start Amps | Run Amps | Service Factor Amps | Run kW | Start KVA | Run KVA | NEC Code Letter | Service Factor |
| 3R30M4-21 | 3RX30M4-21 | 3 | 230 | 1 | 98 | 17.5 | 20.2 | 3.4 | 22.5 | 4 | J | 1.2 |
| 3R30M4-03 | 3RX30M4-03 | 3 | 208 | 3 | 51 | 15 | 17 | 4.5 | 18.4 | 5.6 | G | 1.2 |
| 3R30M4-23 | 3RX30M4-23 | 3 | 230 | 3 | 46 | 13 | 15.2 | 4.3 | 18.3 | 5.2 | G | 1.2 |
| 3R30M4-43 | 3RX30M4-43 | 3 | 460 | 3 | 23 | 6 | 7.6 | 4.3 | 18.3 | 5.2 | G | 1.2 |
| 3R30M4-53 | 3RX30M4-53 | 3 | 575 | 3 | 19 | 5 | 6 | 4.4 | 18.9 | 5.2 | H | 1.2 |
| 3R50M4-21 | 3RX50M4-21 | 5 | 230 | 1 | 108 | 34 | 44 | 6.3 | 24.8 | 7.8 | E | 1.2 |
| 3R50M4-03 | 3RX50M4-03 | 5 | 208 | 3 | 106 | 21.6 | 26 | 6.1 | 38.1 | 7.8 | J | 1.2 |
| 3R50M4-23 | 3RX50M4-23 | 5 | 230 | 3 | 96 | 18 | 21.6 | 6 | 38.2 | 7.2 | J | 1.2 |
| 3R50M4-43 | 3RX50M4-43 | 5 | 460 | 3 | 48 | 9 | 10.8 | 6 | 38.2 | 7.2 | J | 1.2 |
| 3R50M4-53 | 3RX50M4-53 | 5 | 575 | 3 | 39 | 7.2 | 8.6 | 6.1 | 38.8 | 7.2 | J | 1.2 |

| 1750 RPM 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 |
| 3 | 1 | 69 | 68 | 65 | 57 | 87 | 85 | 81 | 73 |
| 3 | 3 | 68 | 71 | 71 | 67 | 87 | 88 | 87 | 83 |
| 5 | 1 | 64 | 69 | 68 | 61 | 86 | 87 | 84 | 75 |
| 5 | 3 | 76 | 76 | 75 | 70.5 | 85 | 82 | 75 | 63 |



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