ISO 9001 Registered Quality System

519/748-5470, FAX: 519/748-2553
F. E. Myers, 1101 Myers Parkway, Ashland, Ohio 44805-1969

WHERE INNOVATION MEETS TRADITION

WG20/WGX20 Series
Standard and Explosion-proof 2 HP Submersible Grinder Pumps

ADVANTAGES BY DESIGN

IDEAL FOR USE IN PRESSURE SEWER SYSTEMS.
- Choice of standard or high flow designs.
- Recessed impeller provides steep non-overloading operating curve.

DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE.
- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- Recessed impeller reduces radial bearing loads, increases bearing life.
- High torque capacitor start/run single phase or three phase motors for assured starting under heavy load.
- Seal leak probes and on-winding heat sensors warn of seal leak condition, and stop motor if motor overheats. Helps prevent costly motor damage.

THE WG/WGX20 SERIES IS DESIGNED FOR EASY MAINTENANCE.
- Shredding ring and grinder impeller are replaceable without dismantling pump or motor.

PRODUCT CAPABILITIES

CAPACITIES To 70 GPM 260 LPM
Heads To 105 ft. 32.1 m
Liquid Handling: domestic, raw sewage
Infiltrant Liquid temp. up to 200°F 100°C
Winding Insulation temp. 315°F 155°C

Motor Electrical Data
- 1 ph - capacitor start/run. 208 or 230 volt; 60 Hz
- 3 ph - induction run 200, 230, 460, 575 volts, 60 Hz

Seal chamber shall be oil filled to lubricate seal face and to transfer heat from shaft to outer shell.

Seal leak probes and on-winding heat sensors warn of seal leak condition, and stop motor if motor overheats.

A heat sensor thermostat shall be attached to top end of motor winding and shall be connected in series with the magnetic contactor coil in control box to stop motor if motor winding temperature reaches 221°F. Thermostat to reset automatically when motor cools. Two heat sensors shall be used on 3 phase motors.

The common motor pump and grinder shaft shall be of #416 stainless steel threaded to take pump impeller and grinder unit and submersible type motor. The grinder unit shall be capable of macerating all material in normal domestic and commercial sewage including reasonable amounts of foreign objects such as small wood, sticks, plastic, thin rubber, sanitary napkins, disposable diapers and the like to a fine slurry that will pass freely through the pump and 1:1/4" discharge pipe. Discharge shall be 1:1/4" NPT. WGX Series pump and motor assembly shall be UL listed for Class 1, Group D explosion-proof service.

OPERATING CONDITIONS
- Pump shall have a capacity of _______ GPM at a total head of _______ feet and shall use a 2 HP motor operating at 3450 RPM.

WG/WGX20 Series

SPECIFICATIONS

PUMP MODEL
- Pump shall be of the centrifugal type Myers model WG/WGX20 Series or equal with an integrally built in grinder unit and submersible type motor. The grinder unit shall be capable of macerating all material in normal domestic and commercial sewage including reasonable amounts of foreign objects such as small wood, sticks, plastic, thin rubber, sanitary napkins, disposable diapers and the like to a fine slurry that will pass freely through the pump and 1:1/4" discharge pipe. Discharge shall be 1:1/4" NPT. WGX Series pump and motor assembly shall be UL listed for Class 1, Group D explosion-proof service.

OPERATING CONDITIONS
- Pump shall have a capacity of _______ GPM at a total head of _______ feet and shall use a 2 HP motor operating at 3450 RPM.

MOTOR
- Pump motor shall be of the submersible type rated 2 horsepower at 3450 RPM. Motor shall be for single phase 208 volts or 230 volt or three phase 200 volts, 230 volts, 460 volts or 575 volts. Single phase motors shall be of capacitor start, capacitor run, NEMA E type. Three phase motors shall be NEMA B type. Motors rated for VFD/continuous duty operation.

Stator winding shall be of the open type with Class F insulation good for 155°C maximum operating temperature. Winding shall be filled with a clean high dielectric oil that lubricates bearings and seals and transfers heat from windings and rotor to outer shell. Air-filled motors which do not have the superior heat dissipating capabilities of oil-filled motors shall not be considered equal.

Seal construction shall be brass or bronze to prevent costly motor damage. A heat sensor thermostat shall be attached to top end of motor winding and shall be connected in series with the magnetic contactor coil in control box to stop motor if motor winding temperature reaches 221°F. Thermostat to reset automatically when motor cools. Two heat sensors shall be used on 3 phase motors.

The common motor pump and grinder shaft shall be of #416 stainless steel thread to take pump impeller and grinder impeller.

Seals
- Motor shall be protected by two mechanical seals mounted in tandem with a seal chamber between the seals. Seal chamber shall be oil filled to lubricate seal face and to transmit heat from shaft to outer shell.

A double electrode shall be mounted in the seal chamber to detect any water entering the chamber through the lower seal. Winding housing shall be continuous with housing and shall cause a red light to turn on at the control box. This signal shall reset motor if motor shall act as a warning only, indicating service is required.

PUMP IMPELLER
- The pump impeller shall be of the recessed Myers type to provide an unobstructed passage through the volute for the ground solids. Impeller shall be of 85-5-5-5 bronze and shall be threaded onto stainless steel shaft.

GRINDER CONSTRUCTION
- Grinder assembly shall consist of grind impeller and shredding ring and shall be mounted directly below the volute passage. Grinder impeller to be threaded onto stainless steel shaft and shall be locked with screw and washer. The shredding ring shall be pressed into iron holding flange for easy removal. Flange shall be provided with tapped hole so that screws can be used to push the shredding ring from housing. All grinding of solids shall be from the action of the impeller against the shredding ring.

Both grinders impellers and shredding ring shall be of 440F stainless steel hardened to 58-60 Rockwell C.

CORROSION PROTECTION
- All iron castings shall be pre-treated with phosphate and chromic rinse and to be painted before machining and all machined surfaces exposed to the sewage water to be re-painted. All fasteners to be 302 stainless steel.

BEARING END CAP
- Upper motor bearing cap shall be a separate casting for easy mounting and replacement.

POWER CABLES
- Power cord and control cord shall be double sealed. The power and control conductor shall be single strand stranded with epoxy potting compound and then clamped in place with rubber seal bushing to seal outer jacket against leakage and to provide for strain pull. Cords shall withstand a pull of 300 pounds to meet U.L. requirements.

Insulation of power and control cords shall be type SOOW. Both control and power cords shall have a green ground conductor that attaches to motor frame.

WHERE INNOVATION MEETS TRADITION

F. E. Myers, 1101 Myers Parkway, Ashland, Ohio 44805-1969

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Printed in U.S.A.

Myers Pump Group

Myers (Canada) Ltd., 39 Triumph Drive, Kitchener, Ontario N0W 2G5
519/748-5410, FAX: 519/748-2553

WHERE INNOVATION MEETS TRADITION
**SUBMERSIBLE GRINDER PUMPS**

**MODEL:** WG/WGX20 Series

**SPEED:** 3450 RPM

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### Available Models

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### Dimensions

**[Dimensions in MM]**

- **STATOR:** 2 hp, 3450 RPM, 1 and 3 phase. Press fit for perfect alignment and best heat transfer. Oil-filled motor conducts heat and lubricates bearings.
- **CABLE ENTRY SYSTEM:** Provides double seal protection. Cable jacket sealed by compression fitting. Individual wires sealed by epoxy potting.
- **HEAT SENSOR:** Protects motor from burn-out due to excessive heat from any overload condition. Automatically resets when motor has cooled.
- **BALL BEARINGS:** Upper and lower ball bearings support shaft and rotor and take axial and radial loads.
- **HEAVY 416 SST SHAFT:** Corrosion resistant. Reduces shaft deflection due to grinding loads.
- **SHAFT SEALS:** Double tandem mechanical shaft seals protect motor. Oil-filled seal chamber provides continuous lubrication.
- **SEAL LEAK PROBE:** Detects water in seal housing, activates warning light in control panel.
- **GRINDER ASSEMBLY:** Grinder impeller and shredding ring are replaceable without dismantling pump. Constructed of 440 SST hardened to 56-60 Rockwell.
- **VOLUTE CASE:** Cast iron 1½” NPT vertical discharge.
- **IMPELLER:** Bronze recessed impeller handles ground slurry without clogging or binding. Provides unobstructed flow passage. Reduces radial loads. Pump-out vanes help keep trash from seal, reduces pressure at seal faces.
- **SLEEVE BEARING:** Takes radial load; provides flame path. [UL listed pumps only.]
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**Motor Electrical Data**

**STATOR**
- 2 hp, 3450 RPM, 1 and 3 phase. Press fit for perfect alignment and best heat transfer. Oil-filled motor conducts heat and lubricates bearings.

**CABLE ENTRY SYSTEM**
- Provides double seal protection. Cable jacket sealed by compression fitting. Individual wires sealed by epoxy potting.

**HEAT SENSOR**
- Protects motor from burn-out due to excessive heat from any overload condition. Automatically resets when motor has cooled.

**BALL BEARINGS**
- Upper and lower ball bearings support shaft and rotor and take axial and radial loads.

**HEAVY 416 SST SHAFT**
- Corrosion resistant. Reduces shaft deflection due to grinding loads.

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

**SEAL LEAK PROBE**
- Detects water in seal housing, activates warning light in control panel.

**VOLUTE CASE**
- Cast iron 1¼” NPT vertical discharge.

**IMPELLER**
- Bronze recessed impeller handles ground slurry without clogging or binding. Provides unobstructed flow passage. Reduces radial loads. Pump-out vanes help keep trash from seal, reduces pressure at seal faces.

**SLEEVE BEARING**
- Takes radial load; provides flame path. (UL listed pumps only.)

**GRINDER ASSEMBLY**
- Grinder impeller and shredding ring are replaceable without dismantling pump. Constructed of 440 SST harden to 56-60 Rockwell.

**HEAT SENSOR**
- Protects motor from burn-out due to excessive heat from any overload condition. Automatically resets when motor has cooled.

**IMPELLER**
- Bronze recessed impeller handles ground slurry without clogging or binding. Provides unobstructed flow passage. Reduces radial loads. Pump-out vanes help keep trash from seal, reduces pressure at seal faces.

**PUMP PERFORMANCE**

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Standard and Explosion-proof 2 HP Submersible Grinder Pumps

ADVANTAGES BY DESIGN

- Ideal for use in pressure sewer systems.
- Choice of standard or high flow designs.
- Recessed impeller provides steep non-overloading operating curve.

DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE

- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- Recessed impeller reduces radial bearing loads, increases bearing life.
- High torque capacitor start/run single phase or three phase motors for assured starting under heavy load.
- Seal leak probes and on-winding heaters warn of seal leak condition, and stop motor if motor overheats.

THE WG/WGX20 SERIES IS DESIGNED FOR EASY MAINTENANCE.

- Shredding ring and grinder impeller are replaceable without dismantling pump or motor.

PRODUCT CAPABILITIES

<table>
<thead>
<tr>
<th>Capacities To</th>
<th>70 GPM</th>
<th>260 LPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heads To</td>
<td>105 ft.</td>
<td>32.1 m</td>
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</table>

- Liquid Handling: domestic, raw sewage
- Intermediate liquid temp.: up to 110°F, up to 100°C
- Winding Insulation temp.: 155°C

Motor Electrical Data

- 2 HP, 3450 RPM
- 1 ph - capacitor start/run. 208 or 230 volt; 60 Hz
- 3 ph - induction run. 200, 230, 460, 575 volts, 60 Hz

PUMP IMPELLER

- Recessed impeller provides steep non-overloading characteristic.
- Provides positive suction to efficiently grind typical domestic sewage solids into a fine slurry.
- These pumps are available in standard and U.L. Listed explosion-proof construction for use in Class 1, Group D hazardous locations.

The WG/WGX20 Series can be installed in a variety of packaged systems. Factory-assembled simplex or duplex packages with guide rail systems or suspended systems are available. Individual rail components are also available for installation in on-site concrete or steel systems. Myers offers a complete line of submersible sump, sewage, effluent, grinder, non-clog wastewater pumps, controls, basins, and accessories. For additional information, please contact your local Myers representative or the Myers Ashland, Ohio sales office at 419-289-1144.

WHERE INNOVATION MEETS TRADITION

- Motor housing, shaft, card cap, volute case made of cast iron, Class 30, ASTM A48
- Impeller: Recessed, bronze
- Power Cord: 15 ft. 14 AWG
- Control Cord: 15 ft. 18/5 SOOW
- Mechanical Seals: Short or long life. Stellite tandem carbon & ceramic, or ceramic tungsten carbide
- Pump, Motor shaft: 3/4" or 1 1/2" NPT
- Fasteners: 300 series 304 stainless steel
- Shredding Ring, Grinder Impeller: 440 stainless steel, 58-60 Rockwell

WG/WGX20 Series

SPECIFICATIONS

PUMP MODEL

- Pump shall be of the centrifugal type. Myers model WG/WGX20 Series or equal with an integral built in grinder unit and submersible type motor. The grinder unit shall be capable of macerating all material in normal domestic and commercial sewage including reasonable amounts of foreign objects such as small wood, sticks, plastic, thin rubber, sanitary napkins, disposable diapers and the like to a fine slurry that will pass freely through the pump and 1 1/4" discharge pipe. Discharge shall be 1 1/4" NPT. WGX Series pump and motor assembly shall be UL listed for Class 1, Group D explosion-proof service.

OPERATING CONDITIONS

- Pump shall have a capacity of _______ GPM at a total head of _______ feet and shall use a 2 HP motor operating at 3450 RPM.

MOTOR

- Pump motor shall be of the submersible type rated 2 horsepower at 3450 RPM. Motor shall be for single phase 208 volts or 230 volts or three phase 200 volts or 230 volts or 460 volts or 575 volts. Single phase motors shall be of capacitor start, capacitor run, NEMA L type. Three phase motors shall be NEMA B type. Motors rated for VFD/continuous duty operation.

Seal leak probes and on-winding heat sensors warn of seal leak condition, and stop motor if motor overheats. Helps prevent costly motor damage.

- Motor shall have two heavy duty ball bearings to support pump shaft and take radial and thrust loads and a sleeve guide bushing directly above the lower seal to take radial load and act as flame path for seal chamber. Ball bearings shall be designed for 50,000 hours B-10 life. Stator shall be heat shrink into motor housing.

A heat sensor thermostat shall be attached to the end of motor winding and shall be connected in series with the magnetic contactor coil in control box to stop motor if motor winding temperature reaches 221°F. Thermostat to reset automatically when motor cools. Two heat sensors shall be used on 3 phase motors.

The common motor pump and grinder shaft shall be of #416 stainless steel threaded to take pump impeller and grinder impeller.

- Shredding ring and grinder impeller are replaceable without dismantling pump or motor.

INTERMITTENT LIQUID TEMP. up to 140° F

- Acceptable pH Range: 6 - 9
- Specific Gravity: .9 - 1.1
- Viscosity: 28 - 35 SUS

- Motor shall be of the submersible type rated 2 horsepower at 3450 RPM. Motor shall be for single phase 208 volts or 230 volts or three phase 200 volts or 230 volts or 460 volts or 575 volts. Single phase motors shall be of capacitor start, capacitor run, NEMA L type. Three phase motors shall be NEMA B type. Motors rated for VFD/continuous duty operation.

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