

# Installation, Operation & Maintenance Instruction

All Models



Isochem® GEARCHEM PUMPS



Powerful Magnetic Material can be harmful to pacemakers and sensitive electronic devices.

If using pacemakers or hearing aids, stay back 3 feet as these magnets can be harmful to these devices.

Use extreme caution while unpacking.

Use proper safety equipment and handling techniques as described in the Installation, Operation and Maintenance Manual.

Can harm cell phones and/or credit cards.

For more information on handling instructions contact:



Pulsafeeder, Inc.

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### **REVISION HISTORY**

| Revision # | Implemented By | Revision Date | Approved By | Approval Date | Reason                       |
|------------|----------------|---------------|-------------|---------------|------------------------------|
| E          | Kristin Lenzi  | June 2021     | Phuoc Pham  | 06/07/2021    | Added Warning Page,          |
|            |                |               |             |               | Recommended torque           |
|            |                |               |             |               | values and statement         |
|            |                |               |             |               | regarding Teflon gears and   |
|            |                |               |             |               | wear plates. Updated         |
|            |                |               |             |               | GM8P206 and GM6P206.         |
| F          | Kristin Lenzi  | November 2021 | Phuoc Pham  | 11/16/2021    | Added a note and image to    |
|            |                |               |             |               | page 16 in reference to      |
|            |                |               |             |               | installing the driven magnet |
|            |                |               |             |               | and shaft.                   |

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### INTRODUCTION

Isochem Series pumps use sealless technology which eliminates the need for a rotary mechanical seal and enables the pump to handle hazardous fluids safely with zero leakage.

Some Isochem Gear pumps accept standard NEMA 56C and 143/5TC motors. This enables the pumps to be close coupled which provides greater assembled strength, complete enclosure of all moving parts and compact design. This also eliminates the need for special base plate mountings, couplings or complicated drives. Isochem Gear pumps are also available to accept standard large flange C face metric motors with feet in 71, 80 and 90 L frame sizes.

All Isochem pumps transmit rotation from the motor shaft to the pump shaft by means of a magnetic drive coupling. The principle of operation of the magnetic drive coupling is that an encapsulated driven magnet assembly is mounted on the end of the pump shaft. It is then contained by a closed end "can" which seals against the pump front housing with a static Teflon O-ring. Then a drive magnet assembly attached to an electric motor shaft rotates around the containment can. When the drive magnet assembly rotates, lines of magnetic force cause the driven magnet assembly to rotate which in turn causes the pump shaft to rotate.

The magnetic drive couplings for all Isochem Series are designed for satisfactory operation of the pump. The magnetic couplings have a built-in safety feature which allows them to "decouple" if the coupling torque limit (listed in the pump specification chart) is exceeded. This could happen if a piece of foreign material were to jam the pump gears or if unusually high torque was developed on pump start-up. Unlike many other magnetic drive pumps Isochem pumps use permanent, rare earth magnets which can run decoupled without losing their magnetic strength provided magnet temperature does not exceed 450°F (232°C).

Note: If the pump is allowed to run for an extended period of time decoupled, high temperatures could be generated which ultimately would cause the loss of magnetic strength.

Isochem pumps have all the standard features of ECO Gearchem pumps such as continuous operation over wide temperature and pressure variations, self-priming, constant volume pulsation free flow, able to handle wide viscosity variations and ease of inspection and maintenance.

To achieve successful operation and maximum life from your pump make sure that the pump is compatible with the service and operating conditions of your application. The pump materials of construction and other details are specified by the pump model number. This along with the "Significant Model Numbering System and Selection Table" will fully describe the components of the pump.

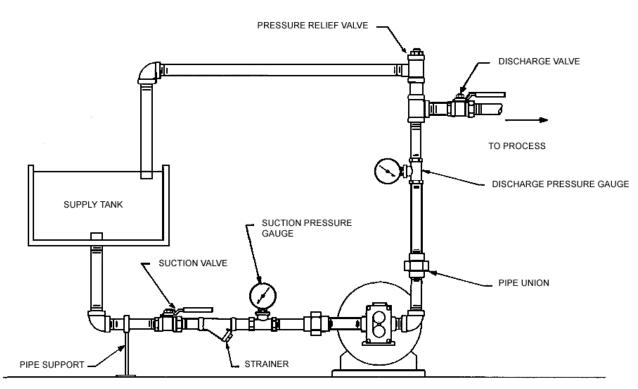
### **EQUIPMENT INSPECTION**

- Check all equipment for completeness against the order and for any evidence of shipping damage. Shortages or damage should be reported immediately to the carrier and to your Isochem representative.
- If the pump is not going to be installed immediately, the following steps should be taken:
  - Leave pump in original shipping carton.
  - Store indoors in a dry ambient atmosphere. Avoid temperature variations.
  - Leave all shipping plugs in place.
  - Contact the motor manufacturer for specific motor storage information.
- 3. These instructions should be read carefully by the personnel responsible for installation, operation and maintenance of the equipment and kept in a convenient place for ready reference. It is recommended that a copy of the Isochem order be kept with this manual as well as a written record of the pump model and serial number which is on the name tag attached to the pump. A space has been provided inside the front cover of the manual to record these numbers.

## INSTALLATION (SEE FIGURE 1)

- Pump installation site should provide easy access for routine maintenance and where possible to protect the pump from the elements and from leaks or drips from nearby process equipment.
- Bolt the pump motor down firmly to mounting surface. Provide for air movement over electric motor.
- Looking at the pump from the magnetic drive end, the suction port is to the right when the pump drive shaft rotates clockwise and is located below the ports. Reversing drive shaft rotation reverses flow and thus suction and discharge ports. Verify proper motor rotation before final piping.

- To check system operation, installation of vacuum/pressure gauges in the suction and discharge lines is recommended.
- Keep suction lines short and straight to minimize friction loss to the pump.
   Make sure that the pump will not run dry. Flooded suction or gravity feed of fluid to pump inlet is generally preferred.
- Use only full-bore ball valves or gate valves in the suction piping. If suction strainers are used size them to minimize pressure drop and select those of a type that are easily cleaned.
- 7. Arrange all suction piping and fittings to prevent formation of air pockets. Make sure all joints are airtight.
- 8. Flush and blow out all suction lines prior to mating up to pump. Use nipples and unions, for ease of maintenance.



TYPICAL PUMP INSTALLATION FIG. 1

- Do not spring piping, either suction or discharge when mating up to the pump. Use supports or hangers at intervals as required. When necessary, provide for thermal expansion and contraction so no strain is placed upon the pump.
- Check all bolts and nuts for tightness. Correct any conditions which could cause destructive vibration or leakage.
- 11. Where required, provide proper system for containment can recirculation.
- If start-up screens are used, be sure they do not clog and starve suction. Start-up screens should be removed prior to placing system into regular operation.
- 13. If flexible suction lines are used, be sure their selection and installation will prevent wall collapse and thus a starved suction condition.
- 14. When taking suction from a tank or vessel, avoid entry of sludge, solids, etc. into suction line by placing suction line inlet above maximum expected level of solids.
- 15. Discharge line should be fitted with properly sized pressure relief valve to protect both pump and discharge system. Pressure relief valve outlet should be piped back to the supply tank.
- 16. When a by-pass system is used to control flow from the pump, the bypassed fluid should be piped back to the suction vessel to prevent heat build-up due to recirculation. If it is absolutely necessary to pipe by-pass back to the pump suction line, the point of entry should be at least 10 pipe diameters away from the suction inlet. Provision for cooling should be made in the event of excessive heat buildup through fluid recirculation.
- 17. Where pumped fluids may solidify, crystallize, precipitate etc., provision should be made to thoroughly flush pump and piping prior to periods of shutdown. Pay particular attention to proper flushing and draining of the magnetic coupling area because this area will not self-drain. There is a drain plug in the front housing for access to this area.

### **OPERATION**

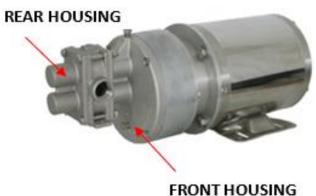
- Prior to operation, make sure all suction piping is airtight and clean. Check that electrical service to motor agrees with name plate ratings. Jog to check rotation and for signs of binding. To check rotation, observe the motor fan. Rewire motor if necessary.
- 2. Isochem Gear pumps are designed to handle clear fluids at viscosities up to 500,000 SSU (100,000 CPS).
  - No gear pump should be run dry. Damage to wear surfaces will result.
  - Pumping fluids containing abrasives should be avoided as accelerated pump wear will result.
- It is recommended that pumps with metallic drive and idler gears not be run with fluids having a viscosity less than 500 SSU (1 00 CPS) or at speeds greater than 1450 RPM.
- The pump will self-prime if fluid is supplied at the pump inlet. If foot valves are used, the valve should be of the flapper type and sized to minimize friction loss.
- 5. If the pump is to operate near the boiling point of the fluid being pumped, a recirculation loop can be set up between the drain connection in the front housing and the suction with provisions for flow control in the recirculation loop.
- 6. Do not operate the pump against a closed discharge. Doing so will cause the magnetic drive to decouple. High temperatures will then be created which can cause the fluid to boil or damage the magnet assemblies. If decoupling occurs, stop the motor and restart after the obstruction has been cleared. As a safety precaution a pressure relief valve by-pass system is highly recommended. Ideally the pressure relief valve is set for a low pressure for start-up.
- Start pump with discharge and suction valves open and check for proper operation. Excessive noise or vibration is an indication of harmful cavitation which is due to insufficient NPSH (Net Positive Suction Head).

<u>Note:</u> For pumps with Teflon gears and wear plates, hand-tighten the rear housing bolts. Slowly increase the speed and pressure. Gradually increase the torque value of the housing bolts until the pressure is achieved. Do not exceed the recommended torque values.

### RECOMMENDED TORQUE VALUES

\*\* Start with hand tightening and then tighten up to recommended Torque valve. \*\*

| Pump Model | Bolt Position              | Bolt size | Recommended Torque in-lbs. (Nm.) |
|------------|----------------------------|-----------|----------------------------------|
|            | Rear Housing Bolts         | 10x32     | 30 (3.4)                         |
| GMC2       | Front Housing Bolts        | 1/4x28    | 60 (6.8)                         |
|            | Motor Bolts                | 3/8x16    | 120 (13.5)                       |
|            | Rear Housing Bolts         | 10x32     | 30 (3.4)                         |
| GMC4       | Front Housing Bolts        | 1/4x28    | 60 (6.8)                         |
|            | Motor Bolts                | 3/8x16    | 120 (13.5)                       |
|            | Rear Housing Bolts         | 1/4x28    | 60 (6.8)                         |
| GMC6       | Front Housing Bolts        | 1/4x28    | 60 (6.8)                         |
|            | Motor Bolts                | 3/8x16    | 120 (13.5)                       |
|            | Rear Housing Bolts         | 1/4x28    | 60 (6.8)                         |
| GMC8       | Front Housing Bolts        | 1/4x28    | 60 (6.8)                         |
|            | Motor Bolts                | 3/8x16    | 120 (13.5)                       |
|            | Rear Housing Bolts         | 1/4x28    | 60 (6.8)                         |
| GMH6       | Front Housing Bolts        | 1/4x20    | 60 (6.8)                         |
| Givii io   | Containment Can Ring Bolts | 1/4x20    | 80 (9.04)                        |
|            | Motor Bolts                | 3/8x16    | 120 (13.5)                       |
|            | Rear Housing Bolts         | 1/4x28    | 60 (6.8)                         |
| GMH8       | Front Housing Bolts        | 1/4x20    | 60 (6.8)                         |
| Olvii io   | Containment Can Ring Bolts | 1/4x20    | 80 (9.04)                        |
|            | Motor Bolts                | 3/8x16    | 120 (13.5)                       |
|            | Rear Housing Bolts         | 5/16x18   | 132 (14.9)                       |
| GM12       | Front Housing Bolts        | 3/8x16    | 120 (13.5)                       |
| GIVITZ     | Containment Can Ring Bolts | 1/4x20    | 60 (6.8)                         |
|            | Motor Bolts                | 5/16x18   | 132 (14.9)                       |
|            | Rear Housing Bolts         | 5/16x18   | 132 (14.9)                       |
| GM16       | Front Housing Bolts        | 3/8x16    | 120 (13.5)                       |
| CIVITO     | Containment Can Ring Bolts | 1/4x20    | 60 (6.8)                         |
|            | Motor Bolts                | 3/8x16    | 120 (13.5)                       |



### **MAINTENANCE**

The timing for maintenance of the pump is established primarily on past performance. Each installation is different. Therefore, detailed maintenance records of past performance can be invaluable for determining future preventative maintenance intervals. For motor maintenance instructions consult the motor manufacturer.

### **CAUTION**

Before performing any maintenance requiring pump disassembly, be sure to flush and drain pump/magnetic drive thoroughly with a neutralizing fluid. Wear protective clothing and handle equipment with proper care.

- When changing a pump from one service to another, be sure to check that all wetted parts of the pump are compatible with the fluid to be handled and that the motor is sufficiently sized for the application. If in doubt, contact your Isochem representative.
- 2. All Isochem pumps transmit rotation from the motor shaft to the pump shaft by means of a magnetic drive coupling. The principle of operation of the magnetic drive coupling is that an encapsulated driven magnet assembly is mounted on the end of the pump shaft. It is then contained by a closed end "can" which seals against the pump front housing with a static Teflon O- ring. Then a drive magnet assembly attached to an electric motor shaft rotates around the containment can. When the drive magnet assembly rotates, lines of magnetic force cause the driven magnet assembly to rotate which in turn causes the pump shaft to rotate.

All magnetic drive couplings have a specific maximum torque limit. If this torque is exceeded the drive will decouple. Operation in the decoupled mode should be avoided as high temperatures could be generated.

3. Whenever gear pumps exhibit reduced flow rates, inability to maintain pressures, noisy

or otherwise abnormal operation, first refer to the troubleshooting section. If the problem cannot be resolved the pump must be inspected for wear or damage. Isochem pumps can be easily opened for cleaning and inspection without disturbing piping connections by removing the pump rear housing.

Where inspection shows wear, rebuilding the pump using an Isochem KOPKit is strongly recommended. Where pumps are equipped with two metallic or plastic gears, replacement with a new set is preferred. Pumps having a metallic drive gear and plastic idler gear can often be restored to original performance by replacing the idler gear alone.

Note: Extended life bearings must be used only with extended life shafts.

#### RECOMMENDED SPARES

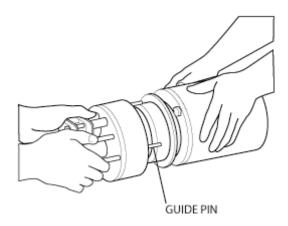
KOPKits. The basic Isochem KOPKit consists of the following parts which are recommended as spares:

Drive Shaft
Idler Shaft
Drive Gear
Idler Gear
Drive Keys
Bearings
Wear Plates
Bearing Lock Pins
Magnet Retaining Rings
Drive Gear Retaining Rings
Idler Gear Retaining Rings
Housing O-Rings
Can O-Ring

A KOPKit is completely identified by placing the letter "K" before the pump significant model number and deleting the hyphens. Example: A KOPKit for a GMC6-ACC-KKO pump would be designated as KGMC6ACCKKO.

- 4. General maintenance precautions to observe are:
  - Drain and flush pump and magnetic drive before any pump disassembly. Access to the magnetic drive area is provided by a drain connection in the pump main cover.
  - The exposed magnets on the drive magnet assembly are very fragile and will chip easily. Use extreme care in handling them.
  - Don't wear a wristwatch in the vicinity of the drive or driven magnets as it may be damaged.
  - Take care to avoid particles or objects from attaching themselves to the drive magnets. It is difficult to remove small particles and larger objects could be attracted with enough force to break the magnets.
  - Be careful during disassembly and reassembly of the drive and driven magnet assemblies. Assembly and disassembly can best be described as a feat of strength. The attraction forces

are high and when the magnets come close together there is a strong tendency to snap together suddenly, possibly causing pinching or worse to fingers. The attraction forces are strongest on the GMC12 and GMC16 pumps. Your representative is fully equipped and prepared to provide maintenance support. See Figure 2.



- Caution. Do not machine the magnets in the drive or driven magnet assemblies. The dust that would be produced is highly inflammable.
- The significant model number stamped on the pump nameplate, identifies the pump type and other details. Refer to the significant model number chart if you are unsure of exactly what type of pump you have.

Always refer to the full model and serial number in any correspondence with your Isochem representative. Drawings and a consolidated bill of materials for each Isochem pump are included in this manual. Recommended spare parts are denoted on the consolidated bill of materials.

### **GMC2 & GMC4 SERIES**

### **REFERENCE DRAWING: SD2579**

#### DISASSEMBLY

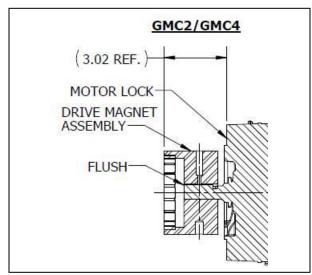
- 1. Close discharge and suction valves.
- Disconnect power source to motor.
- Flush and drain pump then remove pump from the piping. Do not forget to drain the can area through the front housing drain plug (Item 27).
- Remove motor bolts (Item 25). Metric motors use an extra motor adaptor (Item 29) and require that the adaptor bolts (Item 30) be removed first.
- Separate the motor and casing (Item 20) by pulling them apart. This will take physical force because you are pulling against the magnetic attraction of the drive to the driven magnet. Do not pry but pull straight apart.
- 6. Do not remove the drive magnet assembly (Item 21) from the motor unless it or the motor are to be replaced. This will make reassembly easier later. The drive magnet assembly is removed by loosening the setscrews (Item 24) and sliding it off the motor shaft.
- Remove the recessed front housing bolts (Item 26). You must first remove the protective plug. This will allow the casing and can (Item 19) to be separated from the front housing (Item 3). Note: Any remaining fluid left in the can will now drain out.
- Remove the retaining ring (Item 14) on the end of the pump drive shaft (Item 4) and slide the driven magnet assembly (Item 18) off the drive shaft. The key (Item 8) and other retaining ring can also now be removed.
- 9. Remove the housing nuts (Item 16) and the rear housing (Item 1).
- Remove the center housing (Item 2). The gears (Items 6, 7) and wear plates (Item 11) are now accessible and can readily be removed along with the drive and idler shafts (Items 4, 5).

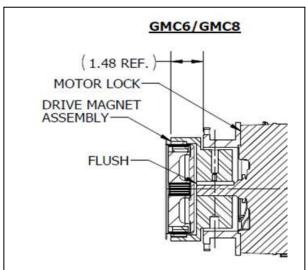
- 11. The gears can be removed from the shafts by removing one of the retaining rings and sliding the gear off the shaft.
- 12. Inspect all parts for signs of wear or damage. The maximum diametrical clearance (bearing I.D. - shaft O.D.). that is acceptable is .010 inches (.254mm). Shafts and bearings that are scored or worn must be replaced. Gears and wear plates with excessive wear or scoring must also be replaced.
- 13. Clean all parts before reassembly.

### REASSEMBLY

- Install the drive and idler gear (Items 6, 7) onto their respective shafts (Items 4, 5) using keys (Item 8) and retaining rings (Item 14). Take care not to scratch the shafts when installing the rings. Check the ends of the rings for sharp burrs. If a plastic and metal gear set are being used, the plastic gear is always the idler gear.
- With the housing pins (Item 13) in the locator holes in the front housing (Item 3) and new Orings (Item 12) installed in the center housing, assemble on the center housing (Item 2).
- 3. Install a pair of wear plates (Item 11) and the shaft assemblies.
- Next install another pair of wear plates, housing pins, and the rear housing (Item 1). Install the housing bolts (Item 15) and nuts (Item 16) and tighten.
- Install the following parts onto the pump drive shaft in the order listed: retaining ring (Item 14), key (Item 8), Driven magnet assembly (Item 18) with the short hub side towards the front housing and retaining ring. (Item 14).
- 6. Place a new O-ring (Item 28) onto the pilot on the front housing and place the can (Item 19) over the O-ring. Next pilot the casing (Item 20) over the can and thread in hand tight the front housing bolts (Item 26). Gradually and evenly tighten the front housing bolts to draw the casing and front housing together. Take care not to pinch the O-ring. Replace the protective plugs.

- 7. Install the drive magnet assembly (Item 21) onto the motor shaft to the dimension shown in Figure 4. If the motor is metric install the motor adaptor (Item 29) using motor bolts (Item 25) to the motor at this time. Also install the drive magnet assembly onto the motor shaft until it butts up against the shoulder on the motor shaft. Tighten the drive magnet setscrews (Item 24) to 35-inch lbs. (395 Ncm).
- 8. Carefully assemble the motor/drive magnet assembly to the pump casing. Be careful not to chip the drive magnets when slipping them over the can or to pinch your fingers when the two assemblies snap together. The use of (4) assembly guide pins (Part #79637) is suggested. Use guide pin (Part #49639) for metric motors. See Figure 2. Install motor bolts (Item 25) or adaptor bolts (Item 30) for metric motors.





9. Reinstall pump in system, open inlet and discharge valves and start pump. Monitor pump for 5-10 minutes for signs of binding, excessive noise and motor amperage draw. Check performance. If problems are encountered refer to the Troubleshooting Section.

### GMC6 & GMC8 SERIES REFERENCE

DRAWINGS: SD2580

### DISASSEMBLY

- 1. Close discharge and suction valves.
- 2. Disconnect power source to motor.
- 3. Flush and drain pump then remove pump from the piping. Do not forget to drain the can area through the front housing drain plug (Item 27).
- 4. Remove the four casing bolts (Item 35) which are orientated vertically and horizontally. Do not remove the motor bolts (Item 23) or the recessed front housing bolts (Item 26) which have protective plugs and are orientated at 45° to vertical and horizontal, at this time.
- Separate the spool and casing (Item 20) by pulling them apart. This will take physical force because you are pulling against the magnetic attraction of the drive to the driven magnet. Do not pry but pull straight apart.
- 6. Do not remove the drive magnet assembly (Item 21) from the motor unless it or the motor are to be replaced. This will make reassembly easier later. The drive magnet assembly is removed by loosening the setscrews (Item 24) and sliding it off the motor shaft. Access to the setscrews is provided through hole in the spool. Remove the spool from the motor at this time if desired.
- Remove the recessed front housing bolts. You must first remove the protective plug. This will allow the casing and can (Item 19) to be separated from the front housing (Item 3). Note: Any remaining fluid left in the can will now drain out.
- 8. Remove the retaining ring (Item 14) on the

- end of the pump drive shaft (Item 4) and slide the driven magnet assembly (Item 18) off the drive shaft. The key (Item 8) and other retaining ring can also now be removed.
- 9. Remove the housing nuts (Item 16) and the rear housing (Item 1).
- Remove the center housing (Item 2). The gears (Items 6, 7) and wear plates (Item 11) are now accessible and can readily be removed along with the drive and idler shafts (Item 4, 5).
- 11. The gears can be removed from the shafts by removing one of the retaining rings and sliding the gear off the shaft.
- 12. Inspect all parts for signs of wear or damage. The maximum diametrical clearance (bearing J.D. shaft 0.0.) that is acceptable is .010 inches (.254mm). Shafts and bearings that are scored or worn must be replaced. Gears and wear plates with excessive wear or scoring must also be replaced.
- 13. Clean all parts before reassembly.

### REASSEMBLY

- Install the drive and idler gear (Items 6, 7) onto their respective shafts (Items 4, 5) using keys (Item 8) and retaining rings (Item 14). Take care not to scratch the shafts when installing the rings. Check the ends of the rings for sharp burrs. If a plastic and metal gear set are being used, the plastic gear is always the idler gear.
- With the housing pins (Item 13) in the locator holes in the front housing (Item 3) and new Orings (Item 12) installed in the center housing, assemble on the center housing (Item 2).
- Install a pair of wear plates (Item 11) and the shaft assemblies.
- 4. Next install another pair of wear plates, housing pins and the rear housing (Item 1). Install the housing bolts (Item 15) and nuts (Item 16) and tighten.
- Install the following parts onto the pump drive shaft in the order listed: retaining ring (Item 14), key (Item 8), driven magnet assembly (Item 18) with the short, hub

- side towards the front housing and retaining ring. (Item 14). Note: Only new retaining rings should be used on the driven magnet end due to the bending required at disassembly. Use caution not to bend these rings during assembly.
- 6. Place a new O-ring (Item 28) onto the pilot on the front housing and place the can (Item 19) over the O-ring. Next pilot the casing (Item 20) over the can and thread in hand tight the front housing bolts (Item 26). Gradually and evenly tighten the front housing bolts to draw the casing and front housing together. Take care not to pinch the O-ring. Replace the protective plugs.
- 7. Install the spool (Item 29) onto the motor. Then install the drive magnet assembly (Item 21) onto the motor shaft to the dimension shown in Figure 3. If the motor is metric slide the drive magnet assembly onto the motor shaft until it butts up against the shoulder on the motor shaft. Tighten the drive magnet setscrews (Item 24) through the hole provided in the spool to 75-inch lbs. (847 Ncm).
- 8. Carefully assemble the motor/spool/drive magnet assembly to the pump casing. Be careful not to chip the drive magnets when slipping them over the can or to pinch your fingers when the two assemblies snap together. The use of (4) assembly guide pins (Part # 49639) is suggested. Use guide pin (Part # 49656) for metric motors. See Figure 2. Install casing bolts (Item 35).
- Reinstall pump in system, open inlet and discharge valves and start pump. Monitor pump for 5-10 minutes for signs of binding, excessive noise and motor amperage draw. Check performance. If problems are encountered refer to the Troubleshooting Section.

### GMH8 & GMC12/16 SERIES

REFERENCE DRAWINGS: SD-2776, SD-2777, SD-2781

### DISASSEMBLY

- 1. Close discharge and suction valves.
- 2. Disconnect power source to motor.
- 3. Flush and drain pump then remove pump from the piping. Do not forget to drain the can area through the front housing drain plug (Item 62 or 63).
- 4. Remove the bolts (Item 22) which fasten the front housing (Item 1) to the adaptor (Item 36). Then separate the pump from the adaptor by pulling them apart. This will take physical force because you are pulling against the magnetic attraction of the drive to the driven magnet. Do not pry but pull straight apart. Jack out screw tapped holes are provided on the front housing to aid in separating the front housing from the adaptor.
- 5. Do not remove the drive magnet assembly (items 31,32) or the drive magnet holder from the motor unless it or the motor are to be replaced. This will make reassembly easier later. The drive magnet assembly is removed by removing the holder screws (Item 33) then carefully pulling the magnet assembly off the holder. Note: the magnets are very fragile and can be easily damaged by rough handling. The drive magnet holder (Item 30) can be removed by loosening the setscrews (Item 35) and sliding it off the motor shaft or power-frame as appropriate. Access to the setscrews for the GMH8 is provided through the slot in the adaptor. The setscrews for the GMC12/16 drive magnet holder can only be accessed by unbolting the power frame assembly from the adaptor and pulling it out the back of the adaptor.
- 6. The next step is to remove the containment can ring screws (Item 29) and can ring (Item 28). If the pump has the double can option remove the nipples (Item 66) first, then the double can (Item 27). The double can has an integral can ring welded to it. Now the containment can (Item 26) can be removed from the pump.

- 7. The driven magnet assembly (Item 24) can be removed by carefully prying the retaining ring (Item 10) from the end of the pump drive shaft (Item 4). The driven magnet can then be removed from the shaft along with the coupling keys (Item 21) and other retaining ring.
- 8. Remove the housing bolts (Item 18) and the rear housing (Item 3).
- Remove the center housing (Item 2). The gears (Items 6, 7) and wear plates (Item 15) are now accessible and can readily be removed along with the drive and idler shafts (Items 4, 5).
- The gears can be removed from the shafts by removing one of the retaining rings and sliding the gear off the shaft.
- 11. Inspect all parts for signs of wear or damage. The maximum diametrical clearance (bearing I.D. - shaft O.D.) that is acceptable is .010 inches (.254 mm). Shafts and bearings that are scored or worn must be replaced. Gears and wear plates with excessive wear or scoring must also be replaced.
- 12. Clean all parts before reassembly.

### GMH8 & GMC12/16 SERIES

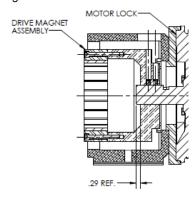
REFERENCE DRAWINGS: SD-2776, SD-2777, SD-2781

#### REASSEMBLY

- Install the drive and idler gear (Items 6, 7) onto their respective shafts (Items 4, 5) using keys (Item 8, 9) and retaining rings (item 10, 11). Take care not to scratch the shafts when installing the rings. Check the ends of the rings for sharp burrs. If a plastic and metal gear are being used the plastic gear is always the idler gear.
- With the housing pins (Item 17) in the locator holes in the front housing (Item 1) and new Orings (Item 16) installed in the center housing (Item 2), assemble on the center housing.
- Install a pair of wear plates (Item 15) and the shaft assemblies.

- 4. Next install another pair of wear plates, housing pins and the rear housing (Item 3). Install the housing bolts (Item 18) and tighten.
- 5. Install the following parts onto the pump drive shaft in the order listed: retaining ring (Item 10), keys (Item 21), driven magnet assembly (Item 24) with the short hub side towards the front housing and retaining ring. Note: Only new retaining rings should be used on the driven magnet end due to the bending required at disassembly. Use caution not to bend these rings during assembly.

**Note:** when installing the driven magnet, it must be set 0.29" below the motor shaft's surface, as shown in the image below.



- 6. Place a new O-ring (Item 25) into the groove in the front housing. Then install the containment can (Item 26) over the driven magnet assembly. Next slide the can ring (Item 28) over the can and install screws (Item 29). If pump is equipped with a double can, install an additional O-ring (Item 25) then the double can assembly (Item 27) instead of the can ring. Also, at this time install pipe plugs (Item 66).
- 7. If the pump is a GMC12 or GMC16, reinstall the guide pins (Item 39) at this time if they had been previously removed. If pump is a GMH8 fabricate guide pins by cutting off the head of some 1 /4-20 bolts and screwing them into the front housing. The purpose of these guide pins is to guide the pump assembly into the adaptor (Item 36). The attractive force of the magnetic assemblies is so great that it is not possible to slowly insert the pump into the adaptor. The GMC12 and GMC16 pumps have springs (Item 40) which cushion the impact when inserting the pump assembly into the adaptor. Note: Great care must be used when assembling pump to adaptor so that your fingers are not pinched. Install pump assembly into adaptor at this time.
- 8. Install bolts (Item 22). Turn motor or powerframe input shaft by hand to check for free rotation without binding.

 Reinstall pump in system, open inlet and discharge valves and check for leaks. Start pump. Monitor pump for 5-10 minutes for signs of binding, excessive noise, and high motor amperage draw. Check performance. If problems are encountered refer to the Troubleshooting Section.

### **BOLT-ON THERMAL JACKETS**

### **INSTALLATION**

The following tools are required:

- Suitable wrenches (open end, socket or adjustable) to bolt jacket halves together. 7/16, 9/16- or 3/4-inch wrench sizes. Bolts provided with jacket.
- Heat transfer cement (Thermon "standard grade" or equivalent) to fill any slight clearance between the interior surface of the bolt-on jacket and the exterior surface of the pump.
- A suitable mason's trowel to apply heat transfer cement to the interior surface of the jacket.
- Damp paper towels or rags for clean-up.
- 1. Install the Isochem pump that is to be jacketed in the process line.
- Visually inspect pump to be jacketed and remove any foreign material, packing lists, or identification tags which might come between inner jacket surface and the pump. Note: Pumps that have painted surfaces require no special preparation. Paint should be dry.
- Check for proper fit of the bolt-on jacket halves by removing bolts which hold the halves together, and place both halves around pump. Normally there is slight clearance between the inner jacket surface and the pump.
- 4. Remove jacket halves from the pump and lay them on a clean, dry, work area, inner surfaces face up.
- 5. With a trowel, coat the inner surfaces of the jacket halves with heat transfer cement. Coating should be approximately 1/8 to 1/4 inch (3-6mm) thick. Also dab a small quantity of the cement on the back of the pump flanges in three or four places.
- 6. Place jacket halves with heat transfer cement on pump and press firmly in place. Bolt jacket halves together with jacket bolts removed in Step 3.
- 7. Tighten bolts alternately to assure snug, even seating of jacket halves on the pump.

NOTE: As bolts are tightened alternately excess heat

transfer cement will extrude from edges of jackets and at flange interfaces. Remove this excess cement with trowel.

- Use damp rags or paper towels to clean any excess heat transfer cement from installation. Make sure there is no heat transfer cement on threads of valve stems.
- Allow heat transfer cement to dry for 24 hours above 32°F (0°C) before applying heating medium to the bolt-on jacket.

#### **REMOVAL**

The following tools are required:

- Rubber or plastic mallet to dislodge jacket halves from heat transfer cement and pump.
- Suitable wrenches (open-end, socket or adjustable) to remove bolts holding jacket halves on pump.
- A hand chisel to remove any chunks of heat transfer cement that adhered to the inner surfaces of the bolt-on jacket.
  - Turn off heating medium supply and allow jacket/pump to cool to ambient temperature. Remove heating medium jump-overs from jacket halves with suitable wrenches. NOTE: If jacket halves are being removed to repair the pump or replace it with an identical component and flexible metal houses are used as jumpovers, it is normally unnecessary to remove the jump-overs. Work on the pump can proceed with the jacket halves dislodged from the pump while the heating medium jump-overs remain connected to the drain and supply jacket.
  - Remove bolts holding jacket halves on the pump. Tap the jacket halves lightly with a rubber or plastic mallet to dislodge them from the pump. NOTE: Jacket halves may be pried apart with a screwdriver or hand chisel, but this should be done very carefully with only nominal force.
  - 3. In most instances, the heat transfer cement adheres to the pump and not the inner surfaces of the jacket. The cement can be easily chipped away from the pump surface with a hand chisel. Any chunks of the heat transfer cement adhering to the inner surface of the jacket halves should be removed also. Residual traces of heat transfer cement on the inner surfaces of the jacket halves need not be removed. These traces neither affect a good fit nor inhibit good thermal performance.

4. When inside surfaces of jacket halves are clean, the jacket is ready for re-use. If the gear pump is to be repaired and reused, be sure to remove heat transfer cement adhering to its surface before reinstalling the bolt-on jacket.

### PEDESTAL ASSEMBLY

### **REFERENCE DRAWING: SD2582**

### GENERAL MAINTENANCE

- Fill power-frame oil cup (Item 4) to about 1/6 inch (2mm) from the top of the cup. Use standard motor oil SAE 10W-40, 10W-30 or 5W-30.
- Drain and change oil after every 2000 hrs. of operation. Sooner if water or other contamination occurs.

### DISASSEMBLY

- 1. Remove bearing cap bolts (Items 9).
- 2. Slide bearing cap (Item 3) out of housing (Item 1) and over end of shaft (Item 2).
- 3. Remove shaft/bearing assembly by sliding out of housing.

### REASSEMBLY

- 1. Press new bearings (Items 6, 10) onto shaft (Item 2) if replacement is required.
- Press new oil seals (Item 7) into housing (Item 1) and bearing cap (Item 3). Apply grease to seal lips.
- 3. Slide shaft/bearing assembly into power-frame housing.
- 4. Determine the correct gasket (Item 5) quantity Necessary to obtain an end play of .000-.004 inches (0-.10mm).
- 5. Replace bearing cap bolts (Items #9) and tighten.

### **TROUBLESHOOTING**

| DIFFICULTY                     | PROBABLE CAUSE REMEDY   |
|--------------------------------|---|
| NO LIQUID DELIVERED            | <ol> <li>Pump not primed.</li> <li>Suction and/or discharge valve closed.</li> <li>Wrong direction or rotation.</li> <li>Suction plugged.</li> <li>Air leak in suction.</li> <li>Suction lift too high.</li> <li>Motor incorrectly wired.</li> <li>Magnetic coupling decoupled.</li> <li>Prime pump.</li> <li>Open valves.</li> <li>Eliminate plug.</li> <li>Locate and repair leak.</li> <li>Do not exceed vapor pressure of liquid.</li> <li>Check wiring diagram.</li> <li>Stop motor, eliminate discharge blockage or foreign matter jamming gears and restart. If no blockage exists, verify motor supply voltage is correct and restart.</li> </ol> |
| LOW LIQUID DELIVERY            | <ol> <li>Discharge pressure higher than expected.</li> <li>Air leak in suction.</li> <li>Rotational speed incorrect.</li> <li>Inlet obstructed or clogged.</li> <li>Liquid viscosity higher than expected.</li> <li>Leaky relief valve.</li> <li>Insufficient suction pressure.</li> <li>Reduce pressure.</li> <li>Locate and repair leak.</li> <li>Remove restriction</li> <li>Thin liquid or accept lower flow.</li> <li>Correctly set or repair relief valve.</li> <li>Increase suction pressure.</li> <li>Inspect and repair as required.</li> </ol>  |
| PUMP GRADUALLY<br>LOSES PRIME  | <ol> <li>Air leak in suction</li> <li>Suction lift too high.</li> <li>Air or gas in liquid.</li> <li>Pump worn or damaged.</li> <li>Locate and repair leak.</li> <li>Increase suction pressure.</li> <li>Eliminate air or gas.</li> <li>Inspect and repair as required.</li> </ol>  |
| PUMP NOISY                     | <ol> <li>Pump cavitating.</li> <li>Pump worn or damaged.</li> <li>Air or gas in liquid.</li> <li>Foreign particles in liquid.</li> <li>Increase suction pressure to provide sufficient NPSH</li> <li>Inspect and repair as required.</li> <li>Eliminate air or gas.</li> <li>Install (or clean) strainer in inlet pipe.</li> </ol>  |
| MOTOR RUNS HOT OR<br>OVERLOADS | <ol> <li>It is normal for motors to feel hot even when not overloading.</li> <li>Discharge pressure too high.</li> <li>Liquid viscosity higher than expected.</li> <li>Rotational speed too high.</li> <li>Binding internal pump parts.</li> <li>It is normal for motors to feel hot even when not overloading.</li> <li>Lower pressure. Check pressure relief valve setting and for defective discharge pressure gauge.</li> <li>Thin liquid or install larger motor.</li> <li>Reduce speed.</li> <li>Inspect and correct condition.</li> <li>Check wiring diagram.</li> </ol>   |

### PUMP SPECIFICATION CHART

|    | PUMP SIZE  | GMH8  | GM12  | GM16  |
|----|--|---|---|---|
|    | MAXIMUM FLOW @ 1750 RPM, 0 PRESSURE GPM (M3/HR) MAXIMUM FLOW @ 1750 RPM, 0 PRESSURE GPM (M3/HR) THEORETICAL DISPLACEMENT GAL/100 REV (cc/REV) MAXIMUM DIFFERENTIAL PRESSURE PSI (BARS) MAX DIFF.PRES. PLASTIC/PLASTIC GEARS PSI (BARS) MAXIMUM CASING PRESSURE TEMPERATURE RANGE : METAL/CARBON GEARS METAL/PEEK GEARS | 22.0 (5.0)<br>14.5 (3.3)<br>1.3687 (51.78)<br>100 (6.9)<br>100 (6.9)<br>150 (10.3)<br>-100 TO +450 °F<br>(-73 TO +232 °C) | NA 28.0 (6.3) 2.792 (105.7) 100 (6.9) 150 (10.3) 200 (10.3) -100 TO +450 °F (-73 TO +232 °C)                    | NA<br>55.0 (12.5)<br>5.584 (211)<br>100 (6.9)<br>100 (6.9)<br>150 (10.3)<br>-100 TO +450 °F<br>(-73 TO +232 °C) |
| 1) | METAL/PLASTIC GEARS  | 0 TO +210 °F<br>(-18 TO +99 °C)   | 0 TO +210 °F<br>(-18 TO +99 °C)   | 0 TO +210 °F<br>(-18 TO +99 °C)   |
| 2) | MAXIMUM VISCOSITY: METAL/METAL GEARS SSU (CPS) MINIMUM VISCOSITY: METAL/METAL GEARS SSU (CPS) MINIMUM VISCOSITY: CERAMIC WEAR PLATES SSU (CPS) MAXIMUM ROTATIONAL SPEED MAX ROTATIONAL SPEED: METAL/METAL GEARS  | 500000 (100000)<br>500 (100)<br>500 (100)<br>1750 RPM<br>1450 RPM   | 500000 (100000)<br>500 (100)<br>500 (100)<br>1150 RPM<br>1150 RPM   | 500000 (100000)<br>500 (100)<br>500 (100)<br>1150 RPM<br>1150 RPM   |
| )  | MAX ROTATIONAL SPEED: METAL/METAL GEARS MAGNETIC COUPLING TORQUE LIMIT 0 68 °F IN/LB MAGNETIC COUPLING TORQUE LIMIT 0 392 °F IN/LB INLET PORT SIZE NPT. BSPT, 150 LB FLG OUTLET PORT SIZE NPT, BSPT, 150 LB FLG CAN DRAIN PORT SIZE NPT BEARING TYPE BEARING TYPE BEARING LUBRICATION                                  | 1450 KPH<br>389 (288)<br>341 (252)<br>1 THD<br>1 THD<br>1/8 THD<br>INTERNAL SLEEVE<br>BY PUMPED FLUID                     | 637 (496)<br>558 (434)<br>1 1/2 THD OR FLG<br>1 1/2 THD OR FLG<br>1/4 THD<br>INTERNAL SLEEVE<br>BY PUMPED FLUID | 1239 (991)<br>1084 (872)<br>2 FLG<br>2 FLG<br>1/4 THD<br>INTERNAL SLEEVE<br>BY PUMPED FLUID                     |
| )  | ### ### ##############################   | REVERSIBLE<br>143/5TC,100L<br>TEFLON<br>8.88×8.00×13.44<br>75 (165)   | REVERSIBLE<br>ANY,BASE MOUNT ONLY<br>TEFLON<br>12.19x10.0x24.56<br>190 (418)                                    | REVERSIBLE<br>ANY, BASE MOUNT ONLY<br>TEFLON<br>12.19X10.0X26.56<br>225 (495)                                   |

### NOTES:

- S:

  (1) FOR TEMPERATURES OVER 110 °F TRIMMED PLASTIC GEARS ARE REQUIRED.

  (2) CONSULT THE FACTORY FOR HIGHER VISCOSITIES

  (3) DIMENSIONS VARY FOR METRIC UNITS, BUT ARE WITHIN ENVELOPE DIMENSIONS SPECIFIED.

  (4) TORQUE IN ( ) IS FOR DOUBLE CAN PUMPS.

DRAWING: ISOGSPEC

SECTION: GENERAL DATA PAGE: 150 EFFECTIVE: 03/11/15 SUPERSEDES: 11/12/04

## ISOCHEM GEAR PUMP PRESSURES TO 100 PSI

### SIGNIFICANT MODEL NUMBERING SYSTEM AND SELECTION TABLE

POSITION NO.: 1 2 3 4 5 6 7 8 9 10 11

| POSITION NO.: 1 2 3 4  | 5                          | b                                       | , ,                                     | 9                        | 10                       | 11                        |                           |                           |
|--|----------------------------|---|---|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|
| POSITION 1 ISOCHEM MAGNETICALLY DRIVEN SEALLE  |                            |   |   |                          |                          |                           |                           |                           |
| GMC = C-FACE MOTOR MOUNTING ASSEMBLY<br>GM - C-FACE MOTOR MOUNTING ASSEMBLY<br>GMH - HIGHER PRESSURE MODEL, C-FACE MOTO  | R MOUNTING                 | 3 ASSEME                                | - 1<br>- 12<br>BLY - 8                  | . 2. 4<br>. 16           | . 6.                     | 8                         |                           |                           |
| POSITION 2 PUMP SIZE   | 1                          | 2                                       | 4                                       | 6                        | 8                        | *8                        | 12                        | 16                        |
| Port Size (INCHES)<br>Capacity (GPM MAX)<br>Differential Pressure (PSIG MAX)<br>Max. Casing Pressure (PSIG MAX)  | .25'<br>.8<br>100<br>300   | .25°<br>1.5<br>100<br>200               | .50°<br>3<br>100<br>200                 | .75*<br>10<br>100<br>150 | 1.00'<br>20<br>50<br>150 | 1.00°<br>20<br>100<br>150 | 1.50°<br>26<br>100<br>200 | 2.00°<br>55<br>100<br>200 |
| POSITION 3 AVAILABLE PUMP METALLURGIES AND T   | YPE PORT (                 | ONNECTI                                 | ON                                      |                          |                          |                           |                           |                           |
| A - 316SS FNPT<br>B = ALLOY B FNPT   | Ŷ                          | х                                       | ×                                       | ×                        | х                        | Х                         | Х                         |                           |
| C = ALLOY C ENPT   | X<br>X<br>X<br>X<br>X<br>X | X                                       | ×                                       | X                        | X                        | ×                         | ×                         |                           |
| D - ALLOY 20 FNPT<br>F - TITANIUM FNPT<br>K - 316SS FBSPT<br>L = ALLOY B FBSPT   | X                          | ×                                       | ×                                       | ×                        | x                        | х                         | ×                         |                           |
| M - ALLOY C FBSPT N - ALLOY 20 FBSPT C - TITANIUM FBSPT  | x̂                         | X                                       | X X                                     | ×                        | X                        | X                         | X<br>X                    |                           |
| U = 316SS FLANGED  | ×                          | X<br>X<br>X                             | ××××××××××××××××××××××××××××××××××××××× | ×                        | ×                        | l x                       | X<br>X                    | ×                         |
| V - ALLOY C FLANGED<br>W - ALLOY 20 FLANGED  |                            | X                                       | ) î                                     | ×                        | X                        | X                         | x                         | X<br>X                    |
| POSITION 4 DRIVE GEAR MATERIAL   |                            |   |   |                          |                          |                           |                           |                           |
| C - ALLOY C<br>D - ALLOY 20<br>T - TEE (Glass Filled) (1.1<br>E - PEEK (17)<br>A - 31688   | ×                          | ×                                       | ×                                       | ×                        | ×                        | х                         | х                         | x                         |
| T = TFE (Glass Filled) (1.1<br>E = PEEK (17)   | 7)                         | XXX                                     | ×××                                     | X<br>X<br>X              | ××××                     |                           |                           | u                         |
| $   \begin{array}{r}     A - 316SS \\     Q = RYTON   \end{array}   \tag{17} $   | X                          |   |   | _ ^                      | ^                        | X                         | ×                         | ×                         |
| POSITION 5 IDLER GEAR MATERIAL   |                            |   |   |                          |                          |                           |                           |                           |
| C = ALLOY C (2.1<br>D - ALLOY 20 (2)<br>K - Carbon (2)<br>T = TFE (Glass Filled) (17)<br>E = PEEK (17)<br>A - 316SS (17)   | 2) X                       | X                                       | ×                                       | X                        | X                        | х                         | х                         | ×                         |
| D - ALLOY 20 (2) K - Carbon T = TFE (Glass Filled) (17) E = PEEK (17)  | ×                          | ××××××××××××××××××××××××××××××××××××××× | X<br>X<br>X                             | X<br>X<br>X<br>X         | X<br>X<br>X              | ××                        | X<br>X<br>X               | ×××                       |
| E = PEEK (17) A - 316SS Q - RYTON (17)   | ) ž                        | ×                                       | ×                                       | ×                        | x                        | ×                         | ×                         | ×                         |
| POSITION 6 WEAR PLATE MATERIAL (16)  | 1                          |   |   |                          | l                        |                           |                           |                           |
|  | X                          | х                                       | ×                                       | x                        | х                        | X                         | х                         | х                         |
| K = Corbon T = TFE (Glass Filled) Z = Ceramic (3) E = PEEK Q = RYTON   |                            | XXX                                     | ×<br>×                                  | X<br>X<br>X              | X<br>X<br>X              | ×                         | X<br>X<br>X               | XXX                       |
| à - RYTÔN  | ×                          | <u> </u>                                |   | _ ^                      | ^                        | _ ^                       | ^                         | _ ^                       |
| POSITION 7 BEARING MATERIAL (16)   |                            |   |   |                          |                          |                           |                           |                           |
| POSITION 7   BEARING MATERIAL (16)   | х                          | ×                                       | ×                                       | X<br>X<br>X              | X<br>X<br>X              | X                         | ×                         | х                         |
| T - TFE (Glass Filled) (4.1<br>4 - Standard Carbon - Slotted (4)<br>C - Extended Life Carbon - 'CW' Shafts (5)   | 1) X                       | 1                                       |   |                          |                          | X                         | X<br>X<br>X               | X                         |
| B = Silican Carbide - "CW" Shafts (5.6<br>Q - RYTON  | ) x                        | ×                                       | ×                                       | ×                        | ×                        | ×                         | î x                       | ×                         |
| E - PEEK POSITION 8 MAG DRIVE MOUNTING ARRANGEMENT   | ×                          |   |   |                          |                          |                           |                           |                           |
| STANDARD U.S. MOUNTINGS  |                            |   |   |                          |                          |                           |                           |                           |
|  | 31 X                       |   |   |                          |                          |                           |                           |                           |
| B = 42C FRAME, SGL. CAN ENTNMNT. (1<br>C - 48C FRAME, SGL. CAN ENTNMNT. (1<br>F - 56C FRAME, SGL. CAN ENTNMNT. (1<br>G = 143TC - 184C FRAME, SGL. CAN ENTNMNT. (1<br>D - 143TC - 184C FRAME, DBL. CAN ENTNMNT. (1<br>R - 182TC - 184C FRAME, DBL. CAN ENTNMNT. (1<br>T - 182TC - 184TC FRAME, DBL. CAN ENTNMNT. (1<br>W = 213TC - 215TC FRAME, DBL. CAN ENTNMNT. (1<br>Y = 213TC - 215TC FRAME, DBL. CAN ENTNMNT. (1 | 31 X<br>31 X<br>31 X       | ×                                       | ×                                       | ×                        | ×                        | ×                         |                           |                           |
| 0 = 143TC- 184C FRAME, SGL. CAN CNTNMNT. (1<br>D = 143TC- 184C FRAME, DBL. CAN CNTNNNT. (1<br>R = 182TC- 184TC FRAME, SGL. CAN CNTNMNT.(1<br>T = 182TC- 184TC FRAME, DBL. CAN CNTNMNT.(1   | 3)<br>4)                   |   |   |                          |                          | ××××                      | ×                         | ×                         |
| R = 182TC - 182TC FRAME, SGL. CAN CHTNMNT.11 T = 182TC - 184TC FRAME, DBL. CAN CHTNMNT.11 W = 213TC - 215TC FRAME, DBL. CAN CHTNMNT.11 Y = 213TC - 215TC FRAME, DBL, CAN CHTNMNT.(1  | 41                         |   |   |                          |                          | X                         | *                         | ×                         |
|  |                            |   |   |                          |                          |                           |                           |                           |
| STANDARD METRIC MOUNTINGS H = 63 FRAME, SGL. CAN (Ø 85.00 B.C.) (1   | 3) X                       |   |   |                          |                          |                           |                           |                           |
| J = 71 FRAME, SGL. CAN (# 85.00 B.C.) (1   | ₹! ×                       | ×                                       | ×                                       | ×                        | ×                        |                           |                           |                           |
| T = 30 FRANE SEL CAN (0115 00 B.C.) (1<br>9 - 100 FRANE SEL CAN (0130 00 B.C.)<br>9 - 100 FRANE DBL CAN (0130 00 B.C.)<br>U - 028 MM INPUT SHAFT. SEL CAN (NINMNT.(1<br>V - 028 MM INPUT SHAFT. SEL CAN (NINMNT.1  | 21                         |   |   | , ×                      | ×                        | X                         |                           |                           |
| U = 028 MM INPUT SHAFT, SGL. CAN CHINMIT.(1<br>V = 028 MM INPUT SHAFT, DBL. CAN CHINMIT.(1   | 41<br>41                   |   |   |                          |                          |                           | X<br>X                    | X                         |
| /vl Wigher Procure Madel   |                            |   |   |                          |                          |                           |                           |                           |

(\*) Higher Pressure Model.

DRAWING: GMCTAB150

SECTION: GENERAL DATA PAGE: 152 EFFECTIVE: 11/12/04 SUPERSEDES: 04/22/04

## ISOCHEM GEAR PUMP EXTENDED PRESSURE PRESSURES ABOVE 100 PSI

### SIGNIFICANT MODEL NUMBERING SYSTEM AND SELECTION TABLE

| POSITION NO .: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|----------------|---|---|---|---|---|---|---|---|---|----|----|
|                |   |   |   |   |   |   |   |   |   |    |    |

| POSITION 1 ISOCHEM MAGNETICALLY DRIVEN SEALLESS   |   |                           |                           |                          |   |
|---|---|---------------------------|---------------------------|--------------------------|---|
| GMC = C-FACE MOTOR MOUNTING ASSEMBLY<br>GM = C-FACE MOTOR MOUNTING ASSEMBLY<br>GMH = HIGHER PRESSURE MODEL, C-FACE MOTOR I  | 10UNT I NG                              | ASSEMB                    | - 2<br>- 12<br>LY - 6     | . 4.                     | 6                                       |
| POSITION 2 PUMP SIZE  | 2                                       | **4                       | **6                       | <b>*</b> 6               | 12                                      |
| Port Size (INCHES)<br>Capacity (GPM MAX)<br>Differential Pressure (PSIG MAX)<br>Max. Casing Pressure (PSIG MAX)   | .25*<br>1.5<br>175<br>200               | .50*<br>2.1<br>140<br>200 | .75*<br>8.0<br>125<br>150 | .75*<br>10<br>200<br>250 | 1.50°<br>26<br>150<br>200               |
| POSITION 3 AVAILABLE PUMP METALLURGIES AND TYPE   | PORT C                                  | ONNECTI                   | ON                        |                          |   |
| A = 316SS   | ××××××××××××××××××××××××××××××××××××××× | xxxxxxx                   | ×××××××                   | ×××××××                  | ××××××××××××××××××××××××××××××××××××××× |
| POSITION 4 DRIVE GEAR MATERIAL  |   |                           |                           |                          |   |
| A - 316 SS<br>C - ALLOY C<br>D - ALLOY 20   | ×××                                     | ××                        | ×                         | ×                        | X                                       |
| POSITION 5 IDLER GEAR MATERIAL  |   |                           |                           |                          |   |
| A = 316 SS<br>C = ALLOY C<br>D = ALLOY 20 (2)<br>E = PEEK   | X<br>X<br>X                             | X<br>X<br>X               | X<br>X<br>X               | X<br>X<br>X              | ×<br>×                                  |
| POSITION 6 WEAR PLATE MATERIAL  |   |                           |                           |                          |   |
| K = Carbon<br>T = TFE (Glass Filled)<br>Z = Ceromic (3)<br>E = PEEK   | ×××                                     | ×××                       | ×××                       | X<br>X<br>X              | ×××                                     |
| POSITION 7 BEARING AND SHAFT MATERIAL   |   | 75.0                      | 7000                      |                          |   |
| K - Standard Carbon (4) L - Extended Life Carbon (4) 4 - Standard Carbon - Slatted (4) C - Extended Life Carbon - 'CW' Shafts (5)   | X<br>X<br>X                             | X<br>X<br>X               | X<br>X<br>X               | X<br>X<br>X              | ×××                                     |
| B = Silicon Carbide - "CW" Shafts (5,6)   | X                                       | ×                         | ×                         | х                        | ×                                       |
| POSITION 8 MAG DRIVE MOUNTING ARRANGEMENT STANDARD U.S. MOUNTINGS   |   |                           |                           |                          | l                                       |
| F = 56C FRAME. SGL. CAN CNTNMNT. (13) 0 = 143TC- 104C FRAME. SGL. CAN CNTNMNT. (13) D = 143TC- 104C FRAME. DBL. CAN CNTNMNT. (13) R = 102TC- 104TC FRAME. SGL. CAN CNTNMNT. (14) T = 102TC- 104TC FRAME. DBL. CAN CNTNMNT. (14) W = 213TC- 215TC FRAME. SGL. CAN CNTNMNT. (14) Y = 213TC- 215TC FRAME. DBL. CAN CNTNMNT. (14) | ×                                       | ×                         | ×                         | ×××××                    | ×                                       |
| STANDARD METRIC MOUNTINGS   |   |                           |                           |                          |   |
| J - 71 FRAME. SEL. CAN (Ø 85.00 B.C.) (13) K - 80 FRAME. SEL. CAN (Ø 100.00 B.C.) (13) L - 90 FRAME. SEL. CAN (Ø 115.00 B.C.) (13) P - 100 FRAME. SEL. CAN (Ø 1150.00 B.C.) (13) U - 028 M1 NPUT SHAFT. SEL. CAN CNTMNT.(14) V - Ø28 M1 NPUT SHAFT. DBL. CAN CNTMNT.(14)  | ×                                       | ×                         | ×                         | ×                        | ×                                       |

(\*) Higher Pressure Model. (\*\*) Model Requires Option "N" (Narrow Width Gears) In Postion 9.

SECTION: GENERAL DATA PAGE: 151 EFFECTIVE: 11/12/03 SUPERSEDES: 11/13/01

## ISOCHEM GEAR PUMP PRESSURES TO 100 PSI

### SIGNIFICANT MODEL NUMBERING SYSTEM AND SELECTION TABLE

#### (CONTIUED)

| 1001111100011   |            |     |     |     |     |     |     |     |     |
|---|------------|-----|-----|-----|-----|-----|-----|-----|-----|
| PUMP SIZE   |            | 1   | 2   | 4   | 6   | 8   | *8  | 12  | 16  |
| POSITIONS 9, 10, AND 11 OPTIONS   |            |     |     |     |     |     |     |     |     |
| A - Bearing Flush Ports   |            |     | x   | x   | ×   | X   | ×   | STD | STD |
| B = PFA Coated, SS Hsg O-Rings<br>Metallic Bearing Lock Pins  |            |     | ×   | ×   | ×   | ×   | ×   | ×   | x   |
| <ul> <li>Bearing Flush Ports</li> <li>PFA Coated, SS Hsg O-Rings</li> <li>Metallic Bearing Lock Pins</li> </ul>                 |            |     | ×   | ×   | ×   | x   | ×   |     |     |
| D = Bearing Flush Ports;<br>PFA Coated, SS Hsg O-Rings<br>Metallic Bearing Lock Pins<br>Slotted Bearings                        | (7)        |     | x   | ×   | x   | x   | ×   |     |     |
| E - Bearing Flush Ports,<br>PFA Coated, SS Hsg O-Rings<br>Metallic Bearing Lock Pins<br>Slotted Bearings<br>Slotted Wear Plates | (7)<br>(8) |     | ×   | ×   | ×   | x   |     |     |     |
| F = NON-Recirculation Wear Plates   |            |     | ×   | ×   | ×   | ×   | STD | STD | STD |
| H - PFA Coated, SS Hsg O-Rings<br>Metallic Bearing Lock Pins<br>Samarium Cobalt Magnets   |            |     | ×   | x   | ×   | x   |     |     |     |
| M - Alloy C Containment Con<br>(For 316ss Construction Pumps)   |            |     | ×   | ×   | ×   | ×   | STD | STD | STD |
| N = Narrow Width Gears  | (9)        |     |     | x   | х   |     |     |     |     |
| R = Recirculation Wear Plates   | (10)       |     | STD | STD | STD | STD | ×   | ×   | ×   |
| S = Samarium Cobalt Magnet<br>(For Temperatures above 300°F)  |            | STD | ×   | ×   | ×   | x   | STD | STD | STD |
| T - Temperature Trimmed Plastic Gear  |            |     | ×   | ×   | ×   | ×   | ×   | ×   | x   |
| V = Center Hsg - Vent   |            |     | ×   | ×   | ×   | ×   | ×   | ×   | STD |
| W = Welded Driven Magnet Assy<br>(Samarium Cobalt Magnets ONLY)   |            |     | ×   | ×   | ×   | ×   | ×   | ×   | x   |
| X = Special   | (15)       |     | x   | x   | x   | x   | ×   | x   | ×   |

### NOTES:

- (1) Maximum differential pressure for plastic/plastic gears is 50 PSIG.
- (2) Pumps with metallic drive and idler gears require minimum viscosity of 100 cps and are limited to 1440 RPM maximum speed for GM2-GMH8 and 1150 RPM for GM12-16 pumps.
- (3) Ceramic wear plates with metallic gears require minimum viscosity of 100 cps.
- (4) Shaft material is same as material of pump.
- (5) 'CW' means corrosion/wear shaft material.
- (6) Recommended for speeds above 1150 RPM and viscosities above 1 cps. GMH8, GM12/16 pumps require minimum viscosity of 100 cps.
- (7) Slotted bearings available in carbon material only.
- (8) Slotted wear plates reduce volumetric efficiency.
- (9) Designation for reduced capacity pump.
- (10) Recirculation wear plates reduce volumetric efficiency.
- (11) GM12 TFE bearings can not be used above 100 PSI differential pressure.
  GM16 TFE bearings can not be used above 50 PSI differential pressure.
- (12) GM12 pumps with metal idler gear can be operated at 150 PSI differential pressure.
- (13) GMC2, GMC4, GMC6, and GMC8 pumps require motors with feet.
- (14) GM12, GM16 pumps are not available with integraly mounted motors.
- (15) Consult Eactory
- (16) GMC1 Models REQUIRE positions 6 and 7 to match. EX: KK, TT, QQ
- (17) GMC1 Models supplied with Position 3 material shaft.
- (\*) Higher Pressure Model.

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## ISOCHEM GEAR PUMP EXTENDED PRESSURE PRESSURES ABOVE 100 PSI

### SIGNIFICANT MODEL NUMBERING SYSTEM AND SELECTION TABLE

(CONTIUED)

| PUMP SIZE   |            | 2   | **4 | **6 | *6  | 12  |
|---|------------|-----|-----|-----|-----|-----|
| POSITIONS 9, 10, AND 11 OPTIONS   |            |     |     |     |     |     |
| A = Bearing Flush Ports   |            | ×   | x   | ×   | X   | STD |
| B = PFA Coated, SS Hsg O-Rings<br>Metallic Bearing Lock Pins  |            | ×   | ×   | ×   | x   | x   |
| C - Bearing Flush Ports<br>PFA Coated, SS Hsg O-Rings<br>Metallic Bearing Lock Pins   |            | x   | ×   | x   | x   |     |
| D = Bearing Flush Parts;<br>PFA Coated, SS Hsg O-Rings<br>Metallic Bearing Lock Pins<br>Slotted Bearings                        | (7)        | X   | ×   | ×   | x   |     |
| E - Bearing Flush Ports,<br>PFA Coated, SS Hsg Ö-Rings<br>Metallic Bearing Lock Pins<br>Slotted Bearings<br>Slotted Wear Plates | (7)<br>(8) | x   | ×   | ×   |     |     |
| F = NON-Recirculation Wear Plates   |            | ×   | ×   | x   | STD | STD |
| H = PFA Coated, SS Hsg O-Rings<br>Metallic Bearing Lock Pins<br>Samarium Cobalt Magnets   |            | X   | ×   | ×   |     |     |
| M = Alloy C Containment Can<br>(For 316ss Construction Pumps)   |            | ×   | ×   | ×   | STD | STD |
| N = Narrow Width Gears  |            |     | ×   | ×   |     |     |
| R = Recirculation Wear Plates   | (10)       | STD | STD | STD | x   | x   |
| S = Samarium Cobalt Magnet<br>(For Temperatures above 300°F)  |            | ×   | ×   | ×   | STD | STD |
| T = Temperature Trimmed Plastic Gear  |            | ×   | ×   | ×   | х   | x   |
| V = Center Hsg - Vent   |            | x   | ×   | ×   | x   | ×   |
| W = Welded Driven Magnet Assy<br>(Samarium Cobalt Magnets ONLY)   |            | ×   | ×   | ×   | ×   | ×   |
| X - Special   | (15)       | X   | ×   | ×   | х   | x   |

### NOTES:

(1)

- (2) Pumps with metallic drive and idler gears require minimum viscosity of 100 cps and are limited to 1440 RPM maximum speed for GMC2-GMH6 and 1150 RPM for GM12 pumps.
- (3) Ceramic wear plates with metallic gears require minimum viscosity of 100 cps.
- (4) Shaft material is same as material of pump.
- (5) 'CW' means corrosion/wear shaft material.
- (6) Recommended for speeds above 1150 RPM and viscosities above 1 cps. GMH6, GM12 pumps require minimum viscosity of 100 cps.
- (7) Slotted bearings available in carbon material only.
- (8) Slotted wear plates reduce volumetric efficiency.

(9) (10) (11)

(10) Recirculation wear plates reduce volumetric efficiency.

(12)

- (13) GMC2, GMC4, GMC6, and GMC8 pumps require motors with feet.
- (14) GM12, GM16 pumps are not available with integraly mounted motors.
- (15) Consult Factory.
- (\*) Higher Pressure Model. (\*\*) Model Requires Option "N" (Narrow Width Gears) In Postion 9.

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### ISOCHEM GEAR PUMP PRESSURES TO 100 PSI

### SIGNIFICANT MODEL NUMBERING SYSTEM AND SELECTION TABLE

| POSITION NO.: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---------------|---|---|---|---|---|---|---|---|---|----|----|

| POSITION 1 ISOCHEM MAGNETICALLY DRIVEN SEALLESS  GMC - C-FACE MOTOR MOUNTING ASSEMBLY GM - C-FACE MOTOR MOUNTING ASSEMBLY GMH - HIGHER PRESSURE MODEL, C-FACE MOTOR M   | OUNT IN                  | ACCEMB                    | - 1<br>- 12        | . 2, 4<br>. 16           | . 6.                     | 8                         |                           |                           |  |
|---|--------------------------|---------------------------|--------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|--|
|   | DUNTING                  |                           |                    |                          | l                        |                           |                           |                           |  |
| POSITION 2 PUMP SIZE  | 1                        | 2                         | 4                  | 6                        | 8                        | *8                        | 12                        | 16                        |  |
| Port Size (INCHES) Capacity (GPM MAX) Differential Pressure (PSIG MAX) Max. Casing Pressure (PSIG MAX)  | .25°<br>.8<br>100<br>300 | .254<br>1.5<br>100<br>200 | .50°<br>100<br>200 | .75*<br>10<br>100<br>150 | 1.00°<br>20<br>50<br>150 | 1.00°<br>20<br>100<br>200 | 1.50°<br>26<br>100<br>200 | 2.00°<br>55<br>100<br>200 |  |
| POSITION 3 AVAILABLE PUMP METALLURGIES AND TYPE PORT CONNECTION   |                          |                           |                    |                          |                          |                           |                           |                           |  |
| A = 316SS FNPT<br>B = ALLOY B FNPT  | ×                        | ×                         | X                  | X                        | x                        | x                         | х                         |                           |  |
| A - 316SS FNPT B - ALLOY B FNPT C - ALLOY C FNPT D - ALLOY 20 FNPT F - TITANIUM FNPT K - 316SS FBSPT L - ALLOY B FBSPT M - ALLOY C FBSPT N - ALLOY C FBSPT U - 316SS FLANGED V - 316SS FLANGED V - ALLOY C FLANGED V - ALLOY C FLANGED  | ×××××××                  | X                         | ×                  | X                        | X                        | X                         | X                         |                           |  |
| F - TITANIUM FNPT<br>K - 316SS _ FBSPT  | X                        | x                         | x                  | x                        | x                        | x                         | х                         |                           |  |
| L - ALLOY B FBSPT M - ALLOY C FBSPT N - ALLOY 20 FBSPT  | Š                        | ×                         | ×                  | ×                        | ×                        | ×                         | ×                         |                           |  |
| N = ALLOT 20  | Ŷ                        |                           | 6000               |                          | 2000                     | X                         | 2000                      | v                         |  |
| Ü - 31655 FLÄNGED<br>V - ALLOY C FLÄNGED<br>W - ALLOY 20 FLÄNGED  |                          | ×                         | ×                  | ×                        | ×                        | ×                         | X<br>X<br>X               | ×                         |  |
| POSITION 4 DRIVE GEAR MATERIAL  |                          |                           |                    |                          |                          |                           |                           |                           |  |
| C = ALLOY C<br>D = ALLOY 20<br>T = TFE (Gloss Filled) (1.17)<br>E = PEEK (17)<br>A = 31655  | ×                        | X                         | ×                  | X                        | X                        | x                         | x                         | ×                         |  |
| D - ÂLIOÝ 20<br>T - TFE (Gloss Filled) (1,17)<br>E - PEEK (17)  |                          | ×××                       | ×××                | ×××                      | ×××                      | 196                       |                           |                           |  |
| A = 316SS<br>0 = RYTON (17)   | X<br>X                   | X                         | ×                  | X                        | ×                        | ×                         | X                         | X                         |  |
| POSITION 5 IDLER GEAR MATERIAL  |                          |                           |                    |                          |                          |                           |                           |                           |  |
| C - ALLOY C<br>D - ALLOY 20 (2,12)<br>K - Carbon (2,12)   | ×                        | ×                         | X                  | X                        | X                        | x                         | X                         | x                         |  |
| =  FE (G(QSS F)(LEQ)  | ×                        | ××××                      | ××××               | ××××                     | ××××                     | X                         | X<br>X<br>X               | X<br>X<br>X               |  |
| E - PEEK (17)<br>A - 3165S<br>Q - RYTON (17)  | X                        | X                         | ×                  | ×                        | ×                        | X                         | X                         | ×                         |  |
| POSITION 6 WEAR PLATE MATERIAL (16)   |                          |                           |                    |                          |                          |                           |                           |                           |  |
|   | ×                        | х                         | x                  | x                        | х                        | x                         | х                         | x                         |  |
| T = TFE (Glass Filled) Z = Ceramic (3)  | 1000000                  | X                         | X<br>X<br>X        | ×××                      | X                        | XXX                       | X<br>X<br>X               | ×××                       |  |
| K - Carbon<br>T - TFE (Glass Filled)<br>Z - Ceramic (3)<br>E - PEEK<br>O - RYTON  | ×                        | ×                         | X                  | X                        | ×                        | ×                         | ×                         | ×                         |  |
| POSITION 7 BEARING MATERIAL (16)  |                          |                           |                    |                          |                          |                           |                           |                           |  |
| K - Standard Carbon (4) L - Extended Life Carbon (4) T - TFE (Glass Filled) (4,11) 4 - Standard Carbon - Slotted (4) C - Extended Life Carbon - "CW" Shafts (5) B - Silicon Carbide - "CW" Shafts (5,6)   | ×                        | ×                         | ×                  | ×                        | ×                        | XXX                       | ×                         | ×                         |  |
| 4 - Standard Carbon - Slotted (4)<br>C - Extended Life Carbon - "CW" Shafts (5)   | _ ^                      | ×                         | ×                  |                          | ×                        | X<br>X                    | X<br>X<br>X               | ×                         |  |
| B - Silicon Carbide - 'CW' Shafts (5,6) O - RYTON E - PEEK  | ×                        | ×                         | ×                  | X                        | ×                        | ×                         | ×                         | ×                         |  |
| POSITION 8 MAG DRIVE MOUNTING ARRANGEMENT   | _ ^                      | J                         | l .                |                          |                          | l.                        |                           |                           |  |
| STANDARD U.S. MOUNTINGS   |                          |                           |                    |                          |                          |                           |                           |                           |  |
| B = 42C FRAME, SGL. CAN CNITNINT. (13)<br>C = 48C FRAME, SGL. CAN CNITNINT. (13)<br>F = 58C FRAME, SGL. CAN CNITNINT. (13)<br>O = 452 FRAME, SGL. CAN CNITNINT. (13)<br>D = 143TC = 184C FRAME, DBL. CAN CNITNINT. (13)<br>R = 182TC = 184T FRAME, SGL. CAN CNITNINT. (14)  | ×                        | ×                         | ×                  | ×                        | ×                        | ×                         | v                         | V                         |  |
| F - 56C FRAME, SGL. CAN CHTNNIT. (13) 0 - 143TC - 184C FRAME, SGL. CAN CHTNNIT. (13) D - 143TC - 184C FRAME, DBL. CAN CHTNNIT. (13) R - 182TC - 184TC FRAME, SGL. CAN CHTNNIT. (14) T - 182TC - 184TC FRAME, DBL. CAN CHTNNIT. (14) W - 213TC - 215TC FRAME, DBL. CAN CHTNNIT. (14) Y - 215TC - 215TC FRAME, DBL. CAN CHTNNIT. (14)       |                          |                           |                    |                          |                          | ××××                      | ×                         | ×                         |  |
| STANDARD METRIC MOUNTINGS   | /genes                   |                           |                    |                          |                          |                           |                           |                           |  |
| H - 63 FRAME, SGL. CAN (# 85.00 B.C.) (13)<br>J - 71 FRAME, SGL. CAN (# 85.00 B.C.) (13)<br>K - 80 FRAME, SGL. CAN (# 105.00 B.C.) (13)<br>L - 90 FRAME, SGL. CAN (#105.00 B.C.) (13)<br>P - 100 FRAME, SGL. CAN (#13.00 B.C.) (13)<br>U - #26 MN INPUT SHAFT, SGL. CAN (*107.00 B.C.)<br>U - #28 MN INPUT SHAFT, SGL. CAN (*107.00 B.C.) | ×                        | ×                         | ×                  | ×                        | ×                        | ×                         | ×                         | ×                         |  |
|   |                          |                           |                    |                          |                          |                           |                           |                           |  |

<sup>(\*)</sup> Higher Pressure Model.

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### ISOCHEM GEAR PUMP PRESSURES TO 100 PSI

### SIGNIFICANT MODEL NUMBERING SYSTEM AND SELECTION TABLE

#### (CONTIUED)

| PUMP SIZE   |            | 1   | 2   | 4   | 6   | 8   | *8  | 12  | 16  |
|---|------------|-----|-----|-----|-----|-----|-----|-----|-----|
| POSITIONS 9, 10, AND 11 OPTIONS   |            |     |     |     |     |     |     |     |     |
| A - Bearing Flush Ports   |            |     | x   | х   | ×   | ×   | ×   | STD | STO |
| B - PFA Coated, SS Heg O-Rings<br>Metallic Bearing Lock Pins  |            |     | x   | x   | ×   | ×   | x   | x   | ×   |
| C - Bearing Flush Ports<br>PFA Coated, SS Hsg O-Rings<br>Metallic Bearing Lock Pins   |            |     | ×   | ×   | ×   | ×   | ×   |     |     |
| D = Bearing Flush Ports,<br>PFA Coated. SS Heg O-Rings<br>Hetallic Bearing Lock Pins<br>Slotted Bearings                        | (7)        |     | ×   | ×   | ×   | ×   | ×   |     |     |
| E = Bearing Flush Ports,<br>PFA Coated, SS Hsg O-Rings<br>Metallic Bearing Lock Pins<br>Slotted Bearings<br>Slotted Wear Plates | (7)<br>(8) |     | ×   | x   | ×   | ×   |     |     |     |
| F - NON-Recirculation Wear Plates   |            |     | ×   | ×   | ×   | ×   | STD | STD | ST  |
| H - PFA Coated, SS Hsg O-Rings<br>Metallic Bearing Lock Pins<br>Samarium Cobalt Magnets   |            |     | x   | x   | ×   | ×   |     |     |     |
| M = Alloy C Containment Con<br>(For 316ss Construction Pumps)   |            |     | ×   | ×   | ×   | ×   | STD | STD | STO |
| N - Narrow Width Gears  | (9)        |     |     | x   | ×   |     |     |     |     |
| R - Recirculation Wear Plates   | (10)       |     | STD | STD | STD | STD | ×   | x   | ×   |
| S - Samarium Cobalt Magnet<br>(For Temperatures above 300°F)  |            | STD | x   | ×   | ×   | ×   | STD | STD | STI |
| T - Temperature Trimmed Plastic Gear  |            |     | ×   | x   | ×   | ×   | ×   | x   | ×   |
| V - Center Hsg - Vent   |            |     | ×   | ×   | ×   | ×   | ×   | ×   | STI |
| W - Welded Driven Magnet Assy<br>(Samarium Cobalt Magnets ONLY)   |            |     | x   | ×   | ×   | ×   | ×   | ×   | ×   |
| X - Special   | (15)       |     | x   | x   | ×   | ×   | ×   | x   | ×   |

### NOTES:

- (1) Maximum differential pressure for plastic/plastic gears is 50 PSIS.
- (2) Pumps with metallic drive and idler gears require minimum viscosity of 100 cps and are limited to 1440 RPM maximum speed for GM2-GMH8 and 1150 RPM for GM12-16 pumps.
- (3) Ceramic wear plates with metallic gears require minimum viscosity of 100 cps.
- (4) Shaft material is same as material of pump.
- (5) 'CW' means corrosion/wear shaft material.
- (6) Recommended for speeds above 1150 RPM and viscosities above 1 cps. GMH8, GM12/16 pumps require minimum viscosity of 100 cps.
- (7) Slotted bearings available in carbon material only.
- (8) Slotted wear plates reduce volumetric efficiency.
- (9) Designation for reduced capacity pump.
- (10) Recirculation wear plates reduce volumetric efficiency.
- (11) GM12 TFE bearings can not be used above 100 PSI differential pressure.
  GH16 TFE bearings can not be used above 50 PSI differential pressure.
- (12) GM12 pumps with metal idler gear can be operated at 150 PSI differential pressure.
- (13) GMC2, GMC4, GMC6, and GMC8 pumps require motors with feet.
- (14) GH12. GM16 pumps are not available with integraly mounted maters.
- (15) Consult Factory.
- (16) GMC1 Models REQUIRE positions 6 and 7 to match. EX: KK, TT, OC
- (17) GMC1 Models supplied with Position 3 material shaft.
- (+) Higher Pressure Model .

SECTION: GENERAL DATA PAGE: 152 EFFECTIVE: 11/12/04 SUPERSEDES: 04/22/04

## PRESSURES ABOVE 100 PSI

### SIGNIFICANT MODEL NUMBERING SYSTEM AND SELECTION TABLE

| POSITION 1 ISOCHEM MAGNETICALLY DRIVEN SEALLESS<br>GMC - C-FACE MOTOR MOUNTING ASSEMBLY   |   |   | - 2                       | . 4.                     | 6                        |
|---|---|---|---------------------------|--------------------------|--------------------------|
| GMC - C-FACE MOTOR MOUNTING ASSEMBLY<br>GM - C-FACE MOTOR MOUNTING ASSEMBLY<br>GMH - HIGHER PRESSURE MODEL, C-FACE MOTOR M  | OUNTING                                 | ASSEMB                                  | - 12<br>LY - 6            |                          |                          |
| POSITION 2 PUMP SIZE  | 2                                       | **4                                     | **6                       | <b>*</b> 6               | 12                       |
| Port Size (INCHES) Capacity (GPM MAX) Differential Pressure (PSIG MAX) Max. Casing Pressure (PSIG MAX)  | .25*<br>1.5<br>175<br>200               | .50°<br>2.1<br>140<br>200               | .75°<br>8.0<br>125<br>150 | .75*<br>10<br>200<br>250 | 1.50<br>26<br>150<br>200 |
| POSITION 3 AVAILABLE PUMP METALLURGIES AND TYPE   | PORT CO                                 | ONNECTIO                                | ON                        |                          | X12<br>303               |
| A - 316SS FNPT C - ALLOY C FNPT D - ALLOY 20 FNPT K - 316SS FBSPT M - ALLOY C FBSPT N - ALLOY 20 FBSPT U - 316SS FLANGED V - ALLOY C FLANGED W - ALLOY 20 FLANGED   | ××××××××××××××××××××××××××××××××××××××× | ××××××××××××××××××××××××××××××××××××××× | ×××××××                   | ***                      | XXXXXXX                  |
| POSITION 4 DRIVE GEAR MATERIAL  |   |   |                           |                          | 0.7                      |
| A - 316 SS<br>C - ALLOY C<br>D - ALLOY 20   | X<br>X<br>X                             | ×                                       | ×                         | ×                        | ×                        |
| POSITION 5 IDLER GEAR MATERIAL  |   |   | 0.00                      |                          | 20.5                     |
| A - 316 SS C (2,12) C - ALLOY C (2,12) D - ALLOY 20 (2) E - PEEK  | X<br>X<br>X                             | ×××                                     | ×××                       | X<br>X                   | ×××                      |
| POSITION 6 WEAR PLATE MATERIAL  | 7,5                                     | 3 3                                     | 22.                       |                          | 200                      |
| K - Carbon<br>T - TFE (Glass Filled)<br>Z - Ceramic (3)<br>E - PEEK   | X<br>X<br>X                             | X<br>X<br>X                             | X<br>X<br>X               | ×××                      | ×××                      |
| POSITION 7 BEARING AND SHAFT MATERIAL   |   |   |                           |                          |                          |
| K - Standard Carbon (4) L - Extended Life Carbon (4) 4 - Standard Carbon - Statted (4) C - Extended Life Carbon - "CW" Shafts (5) B - Silicon Carbide - "CW" Shafts (5,6)   | x                                       | ×                                       | ×                         | ×                        | ×                        |
| C = Extended Life Carban = "CW" Shafts (5)<br>B = Silicon Carbide = "CW" Shafts (5,6)   | X                                       | X                                       | ×                         | ×                        | ×××                      |
| POSITION 8 MAG DRIVE MOUNTING ARRANGEMENT   |   |   |                           |                          |                          |
| STANDARD U.S. MOUNTINGS   |   |   | - V                       |                          |                          |
| F - 56C FRAME, SGL, CAN CNTNMNT. (19) 0 - 143TC - 184C FRAME, SGL, CAN CNTNMNT. (19) D - 143TC - 184C FRAME, DBL, CAN CNTNMNT. (19) R - 182TC - 184TC FRAME, SGL, CAN CNTNMNT. (14) T - 182TC - 184TC FRAME, DBL, CAN CNTNMNT. (14) W - 213TC - 215TC FRAME, SGL, CAN CNTNMNT. (14) Y - 213TC - 215TC FRAME, DBL, CAN CNTNMNT. (14) | ×                                       | ×                                       | ×                         | XXXXX                    | ×                        |
| STANDARD METRIC MOUNTINGS   |   |   |                           |                          |                          |
| J = 71 FRAME, SGL. CAN (# 85.00 B.C.) (13) K = 80 FRAME, SGL. CAN (#100.00 B.C.) (13) L = 90 FRAME, SGL. CAN (#130.00 B.C.) (13) P = 100 FRAME, SGL. CAN (#130.00 B.C.) O = 100 FRAME, DBL. CAN (#130.00 B.C.) U = #28 MM INPUT SHAFT, SGL. CAN CNTMMNT.(14) V = #28 MM INPUT SHAFT, DBL. CAN CNTMMNT.(14)                          | X                                       | ×                                       | ×                         | ×                        |                          |

<sup>(\*)</sup> Higher Pressure Model. (\*\*) Model Requires Option "N" (Norrow Width Gears) in Postion 9.

SECTION: GENERAL DATA PAGE: 153 EFFECTIVE: 11/12/03 SUPERSEDES: 02/12/01

## PRESSURES ABOVE 100 PSI

### SIGNIFICANT MODEL NUMBERING SYSTEM AND SELECTION TABLE

#### (CONTIUED)

| PUMP SIZE   | 2          | **4 | **6 | •6  | 12  |     |
|---|------------|-----|-----|-----|-----|-----|
| POSITIONS 9, 10, AND 11 OPTIONS   |            |     |     |     |     |     |
| A - Bearing Flush Ports   |            | ×   | x   | x   | ×   | STO |
| B - PFA Coated, SS Hep O-Rings<br>Metallic Bearing Lock Pine  |            | ×   | x   | ×   | ×   | ×   |
| C - Bearing Flush Ports<br>PFA Coated, SS Heg O-Rings<br>Metallic Bearing Lack Pins   |            | ×   | ×   | ×   | ×   |     |
| D = Bearing Flush Parts,<br>PFA Coated, SS Hsg O-Rings<br>Metallic Bearing Lack Pins<br>Slotted Bearings                        | (7)        | x   | x   | x   | x   |     |
| E - Bearing Flush Ports:<br>PFA Coated, SS Hap O-Rings<br>Metallic Bearing Lack Pins<br>Slatted Bearings<br>Slatted Warr Plates | (7)<br>(8) | ×   | x   | x   |     |     |
| F - NON-Recirculation Wear Plates   |            | ×   | ×   | ×   | STD | STE |
| H - PFA Coated. SS Hsg O-Rings<br>Metallic Bearing Cock Pins<br>Samarium Cobalt Magnets   |            | ×   | x   | ×   |     |     |
| M = Alloy C Containment Con<br>(For 31668 Construction Pumps)   |            | ×   | ×   | x   | STD | STE |
| N - Narrow Width Gears  |            |     | x   | ×   |     |     |
| R - Recirculation Wear Plates   | (10)       | STD | STD | STD | ×   | ×   |
| S - Samarium Cobait Magnet<br>(For Temperatures above 300°F)  |            | ×   | x   | ×   | STD | STE |
| T - Temperature Trimmed Plastic Gear  |            | ×   | ×   | ×   | ×   | ×   |
| V - Center Hag - Vent   |            | ×   | ×   | ×   | ×   | ×   |
| W - Welded Driven Magnet Assy<br>(Samarium Cobalt Magnets ONLY)   |            | ×   | x   | ×   | ×   | ×   |
| X - Special   | (15)       | ×   | x   | ×   | ×   | ×   |

#### NOTES:

(1)

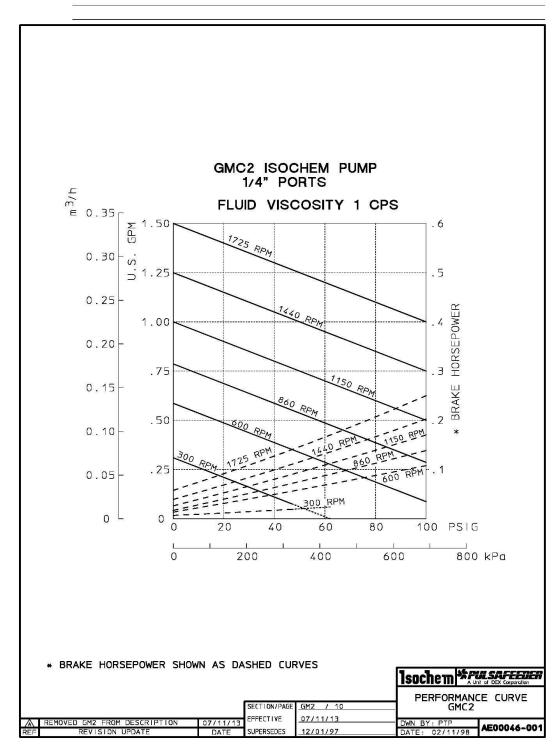
- (2) Pumps with metallic drive and idler gears require minimum viscosity at 100 cps and are limited to 1440 RPM maximum speed for GMC2-GMH6 and 1150 RPM for GM12 pumps.
- (3) Ceramic wear plates with metallic gears require minimum viscosity of 100 cps.
- (4) Shaft material is same as material of pump.
- (5) 'CW' means corrosion/wear shaft material.
- (6) Recommended for speeds above 1150 RPM and viscosities above 1 cps. GM16, GM12 pumps require minimum viscosity of 100 cps.
- (7) Statted bearings available in carbon material only.
- (8) Slotted wear plates reduce volumetric efficiency.
- (9)
  (10) Recirculation wear plates reduce volumetric efficiency.
- (11)

(12

- (13) GMC2, GMC4, GMC6, and GMC8 pumps require motors with feet.
- (14) GM12. GM16 pumps are not available with integraly mounted nators.
- (15) Consult Factory.
- (\*) Higher Pressure Model.
  (\*\*) Model Requires Option "N" (Narrow Width Gears) In Postion 9.

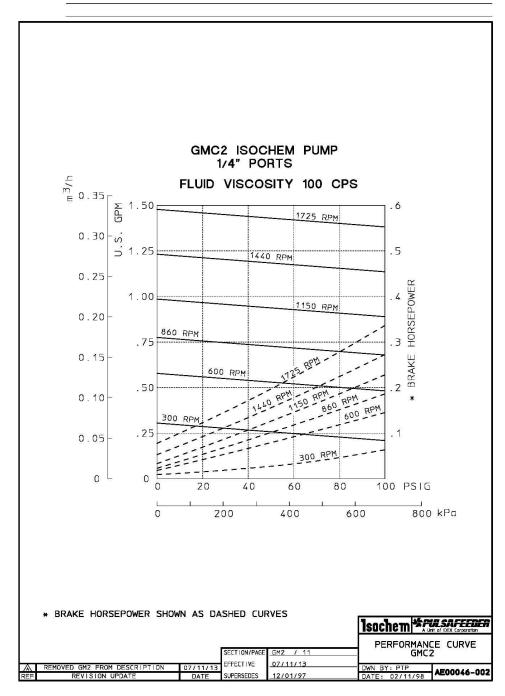
### CERTIFIED DRAWING BY \*PUSAFFEIE

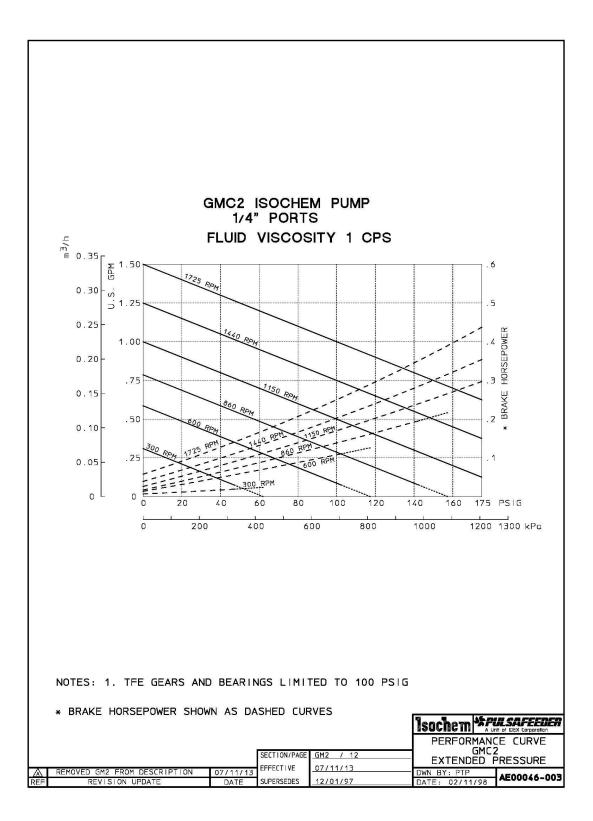
| FOR:              |     |        | NO.:       | _ |
|-------------------|-----|--------|------------|---|
| CUSTOMER P.O. NO: |     | SERIAL | NO.:       |   |
|                   | BY: | PULSA. | ORDER NO.: | _ |
| TAGGING:          |     |        |            | _ |

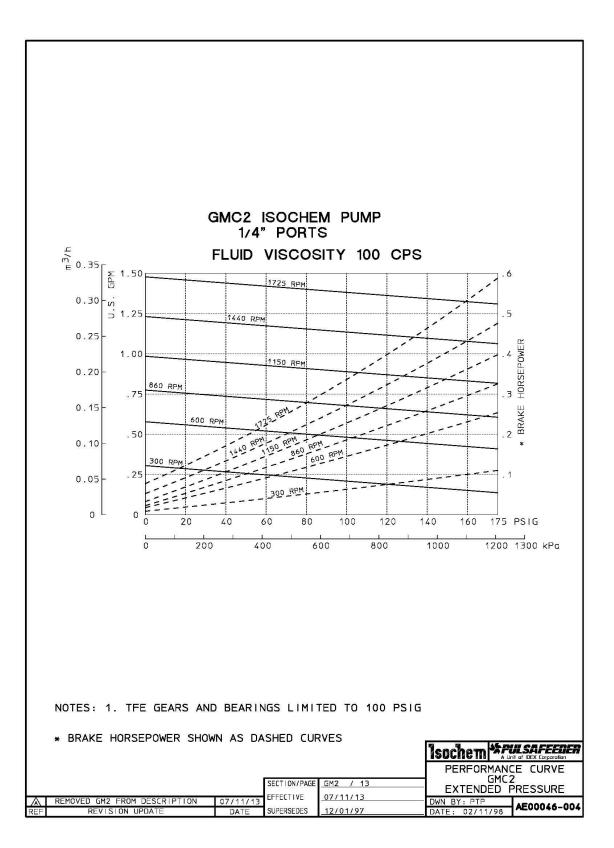


### CERTIFIED DRAWING BY SPULSAFEEDER

| F0R:               | 10g/min 25900006 3070000 9000000000000000000000000000000 | A Unit of DEX C | SERIAL | NO.:       |  |
|--------------------|--|-----------------|--------|------------|--|
| CUSTOMER P.O. NO:_ |  |                 | SERIAL | NO.:       |  |
| ITEM: GMC2         |  |                 | PULSA. | ORDER NO.: |  |
| TAGG I NG :        |  |                 |        |            |  |







ITEM CLASS GMC2 = II PRODUCT LINE = H / ISOCHEM

## ISOCHEM GMC2 SERIES PUMP CONSOLIDATED B / M

SECTION: MODEL GMC2
PAGE: 204
DATE REV.: 06 / 24 / 14
SUPERSEDES: 01 / 07 / 14

|        |                |          |  |     | - 30FERSEDES. 017 077 14 |                 |                |                  |                |                   |          |  |
|--------|----------------|----------|--|-----|--------------------------|-----------------|----------------|------------------|----------------|-------------------|----------|--|
|        |                |          |  |     |                          |                 | STANDARD PU    |                  |                |                   | _        |  |
|        |                |          |  |     | 316                      |                 | ALLO           |                  | ALLO           |                   |          |  |
|        |                |          |  |     |                          | OR U)           | (C, M,         |                  | (D, N,         |                   |          |  |
|        |                |          | DESCRIPTION  | QTY | PART NUMBER              | MATERIAL        | PART NUMBER    | MATERIAL         | PART NUMBER    | MATERIAL          | ITEM     |  |
| POSITI | ON 3           |          | STANDARD PUMP - NON-VARIABLE COMPONE                                     | NTS |                          |                 |                |                  |                |                   |          |  |
|        |                |          | HOUSING, CENTER - 1/4" PORT FNPT   |     | 70026                    | 316 SS          | 70027          | ALLOY C          | 70028          | ALLOY 20          | 2        |  |
|        |                |          | HOUSING, CENTER FBSPT  | 1   | 70029                    | 316 SS          | 70030          | ALLOY C          | 70031          | ALLOY 20          | 2        |  |
|        |                |          | HOUSING, CENTER FLANGED  | 1   | NG040004-316             | 316 SS          | NG040004-HC0   | ALLOY C          | NG040004-020   | ALLOY 20          | 2        |  |
|        |                |          | HOUSING, REAR  | 1   | 70214                    | 316 SS          | 70215          | ALLOY C          | 70216          | ALLOY 20          | 1        |  |
|        |                |          | # RING, RETAINING  | 6   | 76706                    | 316 SS          | 76701          | ALLOY C          | 76701          | ALLOY C           | 14       |  |
|        |                |          | # KEY, METAL DRIVE GEAR  | *1  | 71931                    | 316 SS          | 71911          | ALLOY C          | 71910          | ALLOY 20          | 8        |  |
|        |                |          | # KEY, PLASTIC DRIVE GEAR  | 1 1 | 71932                    | 316 SS          | 71917          | ALLOY C          | 71916          | ALLOY 20          | 8        |  |
|        |                |          | # KEY, MTL / CBN IDLER GEAR  | *1  | 71931                    | 316 SS          | 71911          | ALLOY C          | 71910          | ALLOY 20          | 8        |  |
|        |                |          | # KEY, PLASTIC IDLER GEAR  | 1 1 | 71932                    | 316 SS          | 71917          | ALLOY C          | 71916          | ALLOY 20          | 8        |  |
|        |                |          | # KEY, MAGNETIC CPLG - DRIVE   | 1   | 71933                    | 316 SS          | 71926          | ALLOY C          | 71925          | ALLOY 20          | 8        |  |
|        |                |          | # O-RING, HOUSING  | 2   | 61101                    | TFE             | 61101          | TFE              | 61101          | TFE               | 12       |  |
|        |                |          | PIN, HOUSING   | 4   | 40801                    | 316 SS          | 40801          | 316 SS           | 40801          | 316 SS            | 13       |  |
|        |                |          | BOLT, HOUSING  | 4   | 72006                    | 188 SS          | 72006          | 188 SS           | 72006          | 188 55            | 15       |  |
|        |                |          | NUT, HOUSING BOLT  | 4   | 72101                    | 188 SS          | 72101          | 188 SS           | 72101          | 188 SS            | 16       |  |
|        |                |          | NAMEPLATE  | 1   | 41210                    | 188 SS          | 41210          | 188 SS           | 41210          | 188 55            | -        |  |
| POSITI | ONS 9          | 9, 10,   | AND 11 OPTIONS - DELETE CORRESPONDING ST.<br>HOUSING, CENTER - VENT FNPT |     | 70026-2                  | 316 SS          | 70027-2        | ALLOY C          | 70028-2        | ALLOY 20          | 2        |  |
|        |                | Ιv       | HOUSING, CENTER - VENT FBSPT   | 1   | 70029-2                  | 316 SS          | 70030-2        | ALLOY C          | 70031-2        | ALLOY 20          | 2        |  |
|        |                |          | HOUSING, CENTER - VENT FLANGED   | ļ., | NG040008-316             | 316 SS          | NG040008-HC0   | ALLOY C          | NG040008-020   | ALLOY 20          | 2        |  |
|        | _              | +        | PLUG, 1/8" NPT   | *1  | W772565-316              | 316 SS          | 52301          | ALLOY C          | 52300          | ALLOY 20          | 27       |  |
|        |                | A        | HOUSING, REAR - BRG FLUSH  | 1   | 70212                    | 316 SS          | 70234          | ALLOY C          | 70233          | ALLOY 20          | 1        |  |
|        | Ι,             | -        | PLUG, 1/8" NPT   | *2  | W772565-316              | 316 SS          | 52301          | ALLOY C          | 52300          | ALLOY 20          | 27       |  |
|        | C              | 1        | # PIN, BEARING LOCK  | 3-4 | 41802                    | ALLOY 20        | 41806          | ALLOY C          | 41802          | ALLOY 20          | 10       |  |
|        |                | l R      | # O-RING, HOUSING  | 2   | 61104                    | SS / PFA        | 61104          | SS / PFA         | 61104          | SS / PFA          | 12       |  |
|        |                |          | # O-RING, FRONT HOUSING  | 1   | 61109                    | SS / PFA        | 61109          | SS / PFA         | 61109          | SS / PFA          | 28       |  |
|        |                |          | # BEARING, SLOTTED CARBON  | 5   | 70419                    | CARBON          | 70419          | CARBON           | 70419          | CARBON            | 9        |  |
| Η.     |                |          | # BEARING, SLOTTED TFE (GF)  | 1   | 70432                    | TFE (GF)        | 70432          | TFE (GF)         | 70432          | TFE (GF)          | 9        |  |
|        | )              |          | WALE AD DIATE OF STEED   | 3   | 70433                    | TFE (GF)        | 70433          | TFE (GF)         | 70433          | TFE (GF)          | 9        |  |
| E      |                | _        | # WEAR PLATE, SLOTTED  | 4   | 70526                    | CARBON          | 70526          | CARBON           | 70526          | CARBON            | 11       |  |
|        |                |          | # WEAR PLATE - NON-RECIRCULATION   | 4   | 70523                    | CARBON          | 70523          | CARBON           | 70523          | CARBON            | 11       |  |
|        |                | F        | # WEAR PLATE - NON-RECIRCULATION   | 4   | 70524                    | TFE (GF)        | 70524          | TFE (GF)         | 70524          | TFE (GF)          | 11       |  |
|        |                |          | # WEAR PLATE - NON-RECIRCULATION   | -   | 70525                    | CERAMIC         | 70525          | CERAMIC          | 70525          | CERAMIC           | 11       |  |
|        |                | <u> </u> | # WEAR PLATE - NON-RECIRCULATION   | 1   | 70534<br>79631           | PEEK<br>ALLOY C | 70534          | PEEK             | 70534          | PEEK              | 11<br>19 |  |
|        |                | М        |  |     |                          |                 | 706.43         |                  | 70552          |                   |          |  |
|        |                | 4        | DRVN MAG ASSY (WELDED) / (SAMAR)   | 1   | 79616<br>79604           | 316 SS<br>STEEL | 79643<br>79604 | ALLOY C<br>STEEL | 79662<br>79604 | ALLOY 20<br>STEEL | 18<br>21 |  |
|        |                | s        | DRV MAG ASSY, 56C FR (SAMAR.)  | -   | 79636                    | STEEL           | 79604          | STEEL            | 79604          | STEEL             | 21       |  |
|        | '              |          |  | 1   | 79636                    | STEEL           | 79636          | STEEL            | 79636          | STEEL             | 21       |  |
|        |                | 1        | DRV MAG ASSY, 71 FR (SAMAR.)   | 1   | 79688                    |                 |                |                  |                |                   |          |  |
|        | l <sub>w</sub> | , └─     | DRV MAG ASSY, 80 FR (SAMAR.)   | 1   | 79689<br>79616           | STEEL<br>316 SS | 79689<br>79650 | STEEL<br>ALLOY C | 79689<br>79665 | STEEL<br>ALLOY 20 | 21<br>18 |  |
|        | VV             | Тн       | DRVN MAG ASSY (WELDED) / (SAMAR)   | 1 1 | COMBINE                  | PUMP<br>316 SS  | OPTIONS        | ALLUY C<br>B     | 79665  <br>AND | S S               | 1 19     |  |
|        |                | XN       | HIGH TEMPERATURE APPLICATION HOUSING, CENTER - 1/2" PORT FNPT            | 1   | 70014                    | 316 SS          | 70016          | ALLOY C          | 70015          | ALLOY 20          | 2        |  |
|        |                | I VIA    | HOOSHNO, CENTER - 1/2 PORT FINPT   | 1 1 | /0014                    | 210.22          | 1 400.00       | ALLUT C          | I \00T2        | ALLUTZU           | 1 4      |  |

\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

DWG: GM2P204

### ISOCHEM GMC2 SERIES PUMP CONSOLIDATED B / M

SECTION: MODEL GMC2
PAGE: 205
DATE REV.: 11/12/12
SUPERSEDES: 11/12/04

|                      |   |     |                        | ONSOLID      | A120 0 / 10 |          | SUPERSEDES: | 11/12/04 |     |
|----------------------|---|-----|------------------------|--------------|-------------|----------|-------------|----------|-----|
|                      |   |     | STANDARD PUMP MATERIAL |              |             |          |             |          | ٦   |
|                      |   |     | 316 SS ALLOY C         |              |             |          | ALLOY 20    |          |     |
|                      |   |     | {A, K, C               | (A, K, OR U) |             | OR V)    | (D, N,      | ORW)     |     |
|                      | DESCRIPTION                                       | QTY | PART NUMBER            | MATERIAL     | PART NUMBER | MATERIAL | PART NUMBER | MATERIAL | ITE |
| OSITION 4 8          | 5 DRIVE AND IDLER GEAR MATERIAL                   |     |                        |              |             |          |             |          |     |
| A                    | # GEAR, DRIVE / IDLER                             | 1-2 | 70696                  | 316 55       |             |          |             |          | 6,  |
| c                    | #GEAR, DRIVE / IDLER                              | 1-2 | 70672                  | ALLOY C      | 70672       | ALLOY C  | 70672       | ALLOY C  | 6,  |
| D                    | # GEAR, DRIVE / IDLER                             | 1-2 | 70673                  | ALLOY 20     |             | ****     | 70673       | ALLOY 20 | 6,  |
| К                    | # GEAR, IDLER                                     | 1   | 70674                  | CARBON       | 70674       | CARBON   | 70674       | CARBON   | 6,  |
| T                    | #GEAR, DRIVE / IDLER                              | 1-2 | 70675                  | TFE (GF)     | 70675       | TFE (GF) | 70675       | TFE (GF) | 7   |
| E                    | # GEAR, DRIVE / IDLER                             | 1-2 | 70676                  | PEEK         | 70676       | PEEK     | 70676       | PEEK     | 6,  |
| OSITION 6            | WEAR PLATE MATERIAL                               |     |                        |              |             |          |             |          |     |
| K                    | # WEAR PLATE MATERIAL # WEAR PLATE, RECIRCULATION |     | 70527                  | CARBON       | 70527       | CARBON   | 70527       | CARBON   | 1   |
| T                    | #WEAR PLATE, RECIRCULATION                        |     | 70528                  | TFE (GF)     | 70528       | TFE (GF) | 70528       | TFE (GF) | 1   |
| Z                    | #WEAR PLATE, RECIRCULATION                        | - 4 | 70529                  | CERAMIC      | 70529       | CERAMIC  | 70529       | CERAMIC  | 1   |
| E                    | #WEAR PLATE, RECIRCULATION                        |     | 70546                  | PEEK         | 70546       | PEEK     | 70546       | PEEK     | 1   |
|                      |   |     |                        |              |             |          |             |          |     |
| SITION 7<br>ANDARD C | SHAFT AND BEARING MATERIAL<br>ONSTRUCTION         |     |                        |              |             |          |             |          |     |
|                      | #SHAFT, DRIVE                                     | 1   | 70396                  | 316 SS       | 70301       | ALLOY C  | 70305       | ALLOY 20 | - 4 |
|                      | #SHAFT, IDLER                                     | 1   | 70378                  | 316 SS       | 70379       | ALLOY C  | 70380       | ALLOY 20 |     |
| К                    | # BEARING, DRIVE / IDLER SHAFT                    | .5  | 70404                  | CARBON       | 70404       | CARBON   | 70404       | CARBON   | 1   |
|                      | # PIN, BEARING LOCK - DRIVEN                      | 1   | 41808                  | 316 SS       | 41809       | ALLOY C  | 41810       | ALLOY 20 | 3   |
|                      | # PIN, BEARING LOCK                               | 3   | 41801                  | TFE          | 41801       | TFE      | 41801       | TFE      | 1   |
|                      | # SHAFT, DRIVE                                    | 1   | 70396                  | 316 SS       | 70301       | ALLOY C  | 70305       | ALLOY 20 |     |
|                      | #SHAFT, IDLER                                     | 1   | 70378                  | 316 SS       | 70379       | ALLOY C  | 70380       | ALLOY 20 | 1   |
| L                    | # BEARING, DRIVE / IDLER SHAFT                    | 5   | 70431                  | EWCBN        | 70431       | EWCBN    | 70431       | EWCBN    |     |
|                      | # PIN, BEARING LOCK - DRIVEN                      | 1   | 41808                  | 316 SS       | 41809       | ALLOY C  | 41810       | ALLOY 20 | 3   |
|                      | # PIN, BEARING LOCK                               | 3   | 41801                  | TFE          | 41801       | TFE      | 41801       | TFE      | 1   |
|                      | # SHAFT, DRIVE                                    | 1   | 70396                  | 316 SS       | 70301       | ALLOY C  | 70305       | ALLOY 20 | - 1 |
|                      | #SHAFT, IDLER                                     | 1   | 70378                  | 316 55       | 70379       | ALLOY C  | 70380       | ALLOY 20 |     |
| T                    | # BEARING, DRIVE SHAFT                            | 1   | 70401                  | TFE (GF)     | 70401       | TFE (GF) | 70401       | TFE (GF) |     |
|                      | # BEARING, DRIVE / IDLER SHAFT                    | 3   | 70402                  | TFE (GF)     | 70402       | TFE (GF) | 70402       | TFE (GF) |     |
|                      | # PIN, BEARING LOCK                               | 4   | 41801                  | TFE          | 41801       | TFE      | 41801       | TFE      | 1   |
| TENDED / V           | WEAR - BOTH SHAFTS                                |     |                        |              |             |          |             |          |     |
| ,                    | # SHAFT, DRIVE                                    | 1   | 70393                  | "cw"         | 70303       | "CW"     | 70307       | ,cm.     | - 4 |
|                      | # SHAFT, IDLER                                    | 1   | 70394                  | "cw"         | 70397       | "cw"     | 70308       | "cw"     | 1   |
| C                    | # BEARING, DRIVE SHAFT                            | 5   | 70431                  | EWCBN        | 70431       | EWCBN    | 70431       | EWCBN    | -   |
|                      | # PIN, BEARING LOCK - DRIVEN                      | 1   | 41808                  | 316 55       | 41809       | ALLOY C  | 41810       | ALLOY 20 | 3   |
|                      | # PIN, BEARING LOCK                               | 3   | 41801                  | TFE          | 41801       | TFE      | 41801       | TFE      | 1   |
|                      |   |     |                        |              |             |          |             |          |     |
| JKROSION /           | WEAR ("CW") - BOTH SHAFTS  # SHAFT, DRIVE         | 1   | 70393                  | "cw"         | 70303       | "cw"     | 70307       | "cw"     | 1 4 |
|                      | #SHAFT, IDLER                                     | 1   | 70394                  | "CW"         | 70397       | "cw"     | 70308       | ,cm,     | 5   |
| В                    | # BEARING, DRIVE / IDLER SHAFT                    | 5   | 70428                  | SICBD        | 70428       | SICBD    | 70428       | SICBD    | 9   |
|                      | # PIN, BEARING LOCK - DRIVEN                      | 1   | 41808                  | 316 SS       | 41809       | ALLOY C  | 41810       | ALLOY 20 | 3   |
|                      |   | -   |                        |              |             |          |             |          | _   |

\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

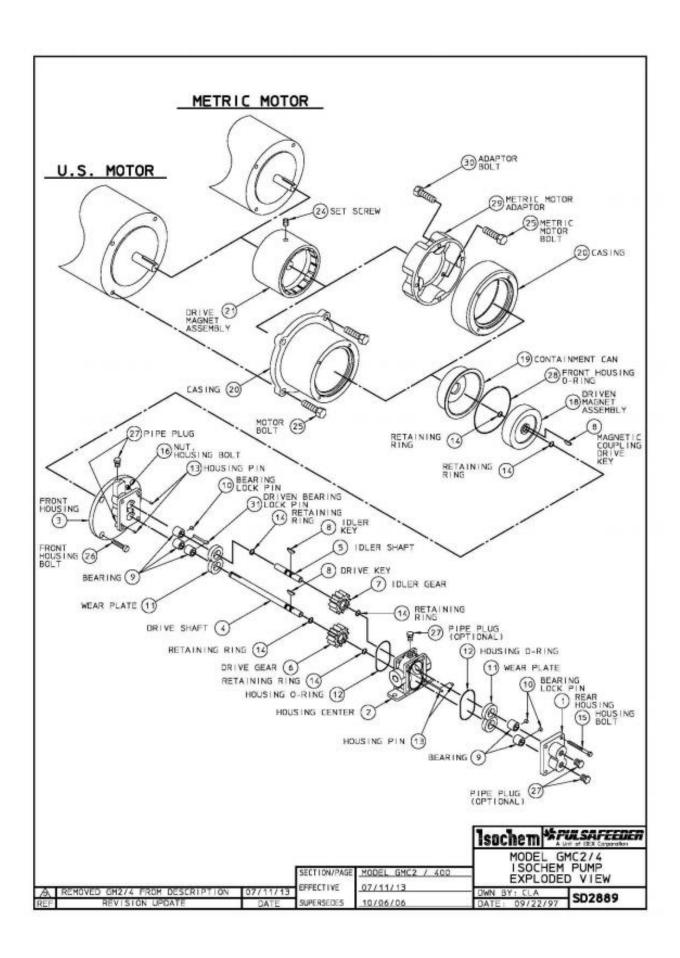
DWG: GM2P205

### **ISOCHEM GMC2 SERIES PUMP** CONSOLIDATED B / M

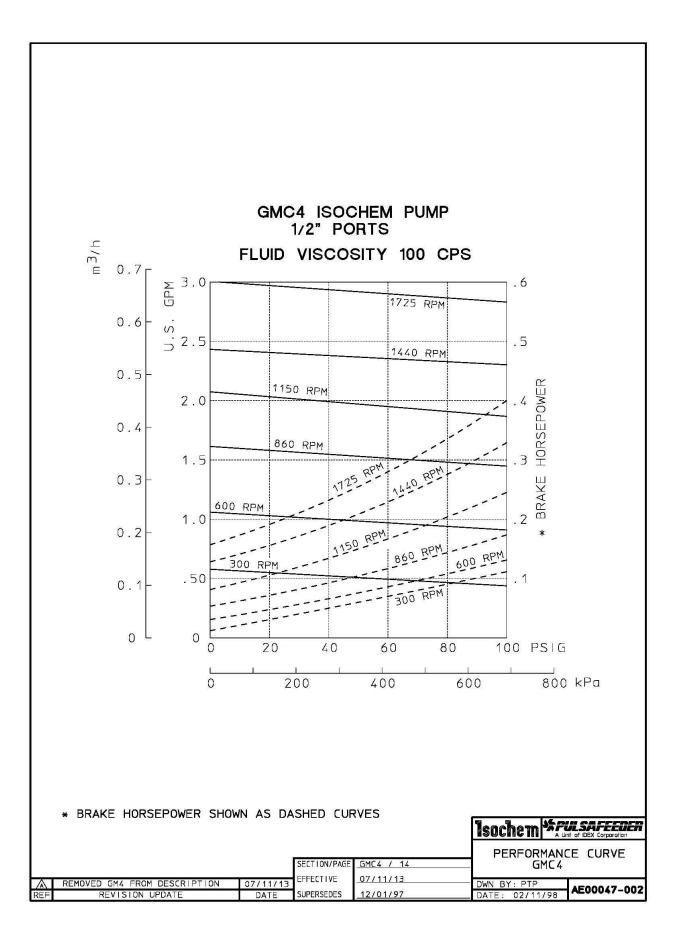
SECTION: PAGE: DATE REV.: SUPERSEDES: MODEL GMC2 206 06 / 24 / 14 11 / 12 / 12

|                 |                                 |     | STANDARD PUMP MATERIAL |          |              |          |              |          |      |  |  |
|-----------------|---------------------------------|-----|------------------------|----------|--------------|----------|--------------|----------|------|--|--|
|                 |                                 | Г   |                        |          | ALLO         | DY C     | ALLO         | Y 20     | 1    |  |  |
|                 |                                 |     | (A, K,                 | OR U)    | (C, M,       | ORV)     | (D, N,       | OR W)    |      |  |  |
|                 | DESCRIPTION                     | QTY | PART NUMBER            | MATERIAL | PART NUMBER  | MATERIAL | PART NUMBER  | MATERIAL | ITEM |  |  |
| OSITION 8       | MAGNETIC COUPLING COMPONENTS    |     |                        |          |              |          |              |          |      |  |  |
|                 | HOUSING, FRONT                  | 1   | 70140                  | 31655    | 70141        | ALLOY C  | 70144        | ALLOY 20 | 3    |  |  |
|                 | CONTAINMENT CAN                 | 1   | 79672                  | 31655    | 79631        | ALLOY C  | 79631        | ALLOY C  | 19   |  |  |
| cormicu         | DRIVEN MAGNET ASSY              | 1   | 79691                  | 31655    | 79692        | ALL0Y C  | 79693        | ALLOY 20 | 18   |  |  |
| COMMON<br>PARTS | #O-RING, FRONT HOUSING          | 1   | W209787-TFE            | TFE      | W209787-TFE  | TFE      | W209787-TFE  | TFE      | 28   |  |  |
| PARIS           | BOLT, FRONT HOUSING             | 4   | 16717                  | 18855    | 16717        | 18855    | 16717        | 18855    | 26   |  |  |
|                 | PLUG, 1/8" NPT                  | *2  | W772565-316            | 31655    | 52301        | ALLOY C  | 52300        | ALLOY 20 | 27   |  |  |
|                 | SET SCREW, DRIVE MAGNET ASSY    | 1   | W771004-019            | STEEL    | W771004-019  | STEEL    | W771004-019  | STEEL    | 24   |  |  |
| CC FRANKE CO    | OMPONENTS                       |     |                        |          |              |          |              |          |      |  |  |
| BC FRAINE CO    | CASING, 56C / 140TC FR          | 1   | 79610                  | ALUMINUM | 79610        | ALUMINUM | 79610        | ALUMINUM | 20   |  |  |
| F               | DRIVE MAGNET ASSEMBLY, 56C FR   | 1   | 79684                  | STEEL    | 79684        | STEEL    | 79684        | STEEL    | 21   |  |  |
|                 | BOLT, MOTOR                     | 4   | W770425-STL            | STEEL    | W770425-STL  | STEEL    | W770425-STL  | STEEL    | 25   |  |  |
| 40TC FRAME      | CASING, 56C / 140TC FR          | 1   | 79610                  | ALUMINUM | 79610        | ALUMINUM | 79610        | ALUMINUM | 20   |  |  |
| 0               | DRIVE MAGNET ASSEMBLY, 140TC FR | 1   | 79610                  | STEEL    | 79610        | STEEL    | 79610        | STEEL    | 21   |  |  |
|                 | BOLT, MOTOR                     | 4   | W770425-STL            | STEEL    | W770425-STL  | STEEL    | W770425-STL  | STEEL    | 25   |  |  |
| 1 METRIC FR     | AME COMPONENTS                  |     |                        |          |              |          |              |          |      |  |  |
|                 | CASING, 71 FRAME METRIC         | 1   | 79681                  | ALUMINUM | 79681        | ALUMINUM | 79681        | ALUMINUM | 20   |  |  |
|                 | DRIVE MAGNET ASSEMBLY, 71 FR    | 1   | 79686                  | STEEL    | 79686        | STEEL    | 79686        | STEEL    | 21   |  |  |
| J               | MOTOR ADAPTOR, 71 FR METRIC     | 1   | 79679                  | ALUMINUM | 79679        | STEEL    | 79679        | STEEL    | 29   |  |  |
|                 | BOLT, MOTOR ADAPTOR             | 4   | 16722                  | STEEL    | 16722        | STEEL    | 16722        | STEEL    | 30   |  |  |
|                 | BOLT, MOTOR                     | 4   | NP990415-STL           | STEEL    | NP990415-STL | STEEL    | NP990415-STL | STEEL    | 25   |  |  |
| O METRIC FR     | AME COMPONENTS                  |     |                        |          |              |          |              |          |      |  |  |
|                 | CASING, 80 FRAME METRIC         | 1   | 79681                  | ALUMINUM | 79681        | ALUMINUM | 79681        | ALUMINUM | 20   |  |  |
|                 | DRIVE MAGNET ASSEMBLY, 80 FR    | 1   | 79687                  | STEEL    | 79687        | STEEL    | 79687        | STEEL    | 21   |  |  |
| K               | MOTOR ADAPTOR, 80 FR METRIC     | 1   | 79680                  | ALUMINUM | 79680        | ALUMINUM | 79680        | STEEL    | 29   |  |  |
|                 | BOLT, MOTOR ADAPTOR             | - 4 | 16722                  | STEEL    | 16722        | STEEL    | 16722        | STEEL    | 30   |  |  |
|                 |                                 |     |                        |          |              |          |              |          | 25   |  |  |

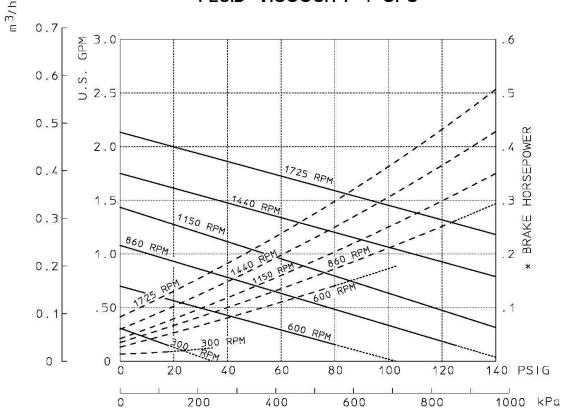
<sup>\*</sup>COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART



|            |            | CERTIFIE   | D DRAWING BY                    |                |               |                                |
|------------|------------|--|---------------------------------|----------------|---------------|--------------------------------|
| FOR:       |            |  |                                 | _ SERIAL       |               |                                |
| CUSTOMER P |            |  | BV.                             |                |               | NO.                            |
| ITEM: GMC4 |            | DATED:   | BY:                             | PULSA.         | ORDER         | NO.:                           |
| TAGGING:   |            |  |                                 |                |               |                                |
| -          |            |  |                                 |                |               |                                |
| <u> </u>   |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            | GN   | AC4 ISOCHEM PL                  | IMP            |               |                                |
|            |            | a.   | 1/2" PORTS                      | /1 <b>V</b> 11 |               |                                |
| £.         |            |  |                                 | 1 000          |               |                                |
| ∏3/h       | 0.7        |  | FLUID VISCOSITY                 | I CPS          |               |                                |
|            | 0.7        | ∑ 3.0  |                                 |                |               | . 6                            |
|            |            | Σ 3.0 <u></u>  |                                 |                |               |                                |
|            | 0 (        |  |                                 | 725 RPM        |               |                                |
|            | 0.6        | S.   |                                 | 23 RPM         |               | _                              |
|            |            | <u></u>  |                                 |                |               | . 5                            |
|            |            | 100  | 1/1                             |                | -             |                                |
|            | 0.5        |  | 1440 RPM                        |                |               | <b>~</b>                       |
|            |            | 2.0  |                                 |                |               | 4 ≯                            |
|            |            | 2.0  |                                 |                | _             | W. P. HORSEPOWER               |
|            | 0.4        |  | 1150 RPM                        |                |               | SEI                            |
|            |            | and the same of th | NPM.                            |                |               | JR3                            |
|            |            | 1.5  | 860                             | <b>`</b> ~~    |               | .3 ≚                           |
|            | 0.3-       |  | 860 RPM                         |                | × _           | Щ                              |
|            |            |  |                                 | 1              | >             | BRAKE                          |
|            |            | 1.0  |                                 | >< \-          |               | . 2 🛱                          |
|            | 0.2        | 1.0  | 600 RPM - 1640 RPM              | RPM-SPM>       | <             | . Z<br>*                       |
|            | y          |  | NPM 1150 1150                   | 860 7,-        | ><            |                                |
|            |            | 175  | RPI - T                         | 600 RP         | W             |                                |
|            | 0.1        | .50^1  | <del>-+(:</del>                 |                |               | . 1                            |
|            | ٥. ١       |  | J = +                           |                | $\overline{}$ | ,                              |
|            |            | E E E E  | 300                             |                |               |                                |
|            | o L        | ° E − ₹0;  | L RELI                          |                |               |                                |
|            | 0 -        | 0  | 20 40 60                        | 80             | 10            | 00 PSIG                        |
|            |            | Ē  | 1 1 1 1                         | Ī              | n             | I I                            |
|            |            | o  | 200 400                         |                | 00            | 800 kPa                        |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
|            |            |  |                                 |                |               |                                |
| * BRAK     | E HORSE    | EPOWER SHOWN   | AS DASHED CURVES                |                |               | 146 mm e = ======              |
|            |            |  |                                 |                | 1soc          | hem A Unit of IDEX Corporation |
|            |            |  |                                 |                | PE            | RFORMANCE CURVE                |
|            |            |  | SECTION/PAGE GMC4 /             |                | -             | GMC 4                          |
|            |            |  | 7/11/13 EFFECTIVE <u>07/11/</u> |                | DWN B         |                                |
| REF R      | EVISION UF | PDATE  | DATE SUPERSEDES 12/01/9         | 97             | _ DATE:       | 02/11/98 <b>AE00047-00</b>     |



#### GMC4 ISOCHEM PUMP NARROW WIDTH GEARS 1/2" PORTS FLUID VISCOSITY 1 CPS



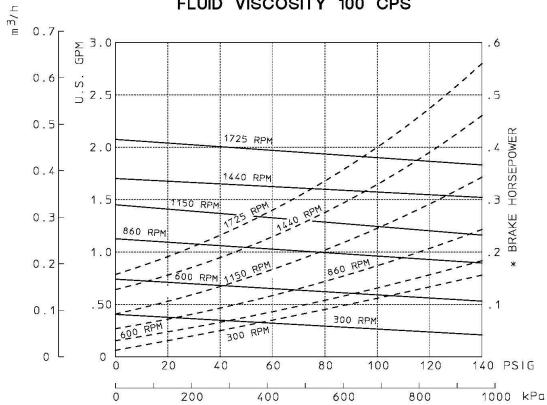
NOTES: 1. TFE GEARS AND BEARINGS LIMITED TO 100 PSIG

\* BRAKE HORSEPOWER SHOWN AS DASHED CURVES

REMOVED GM4 FROM DESCRIPTION 07/11/13
REF REVISION UPDATE DATE SUPERSEDES TO THE PROCESS A CONTROL OF THE PROCESS A CONTR

#### GMC4 ISOCHEM PUMP NARROW WIDTH GEARS 1/2" PORTS

#### FLUID VISCOSITY 100 CPS



NOTES: 1. TFE GEARS AND BEARINGS LIMITED TO 100 PSIG

\* BRAKE HORSEPOWER SHOWN AS DASHED CURVES

|             |                              |          |              |                  | 15UCHE III - A UF | nit of IDEX Corporation |
|-------------|------------------------------|----------|--------------|------------------|-------------------|-------------------------|
|             |                              |          |              |                  | PERFORMANCE       | E CURVE                 |
|             |                              |          |              |                  | GMC 4             |                         |
|             |                              |          | SECTION/PAGE | <u>GMC4 / 16</u> |                   | RESSURE                 |
| <u> </u>    |                              |          | EFFECTIVE    | 07/11/13         | NARROW WID        | IH GEARS                |
| $\triangle$ | REMOVED GM4 FROM DESCRIPTION | 07/11/13 | Criccinsc    | 07711713         | DWN BY: PTP       | AE00047-004             |
| REF         | REVISION UPDATE              | DATE     | SUPERSEDES   | 12/01/97         | DATE: 02/11/98    | AL00047-004             |

Tonchero SPULSAFEEDER

#### ITEM CLASS GMC4 = IK PRODUCT LINE = H / Isochem

### **GMC4 SERIES PUMP** CONSOLIDATED B / M

SECTION: MODEL GMC4 PAGE: DATE REV: SUPERSEDES: 204 11 / 12 / 12 05 / 31 / 07

|         |          |   |        |                       |                  | STANDARD PU           | MP MATERIAL       |              |             | 7       |
|---------|----------|---|--------|-----------------------|------------------|-----------------------|-------------------|--------------|-------------|---------|
|         |          |   |        | 316                   |                  | ALLO                  |                   | ALLO         |             | 1       |
|         |          | DESCRIPTION   | ату    | PART NUMBER           | OR U) MATERIAL   | (C, M,<br>PART NUMBER | OR VJ<br>MATERIAL | PART NUMBER  | MATERIAL    | ITE     |
|         |          |   | -      | THAT NOW OUT          | mari Chine       | TARE NUMBER           | INCHT ENGLE       | TARE NOMBER  | TYPH LITTLE | 1110    |
| ION 3   |          | STANDARD PUMP - NON-VARIABLE COMPONE HOUSING, CENTER FNPT | MIS    | 70014                 | 316 55           | 70016                 | ALLOY C           | 70015        | ALLOY 20    | 1 2     |
|         |          | HOUSING, CENTER FBSPT                                     | 1      | 70020                 | 316 55           | 70022                 | ALLOY C           | 70021        | ALLOY 20    | 2       |
|         |          |   | - 1    |                       |                  | N6040004-HC0          |                   | NGD40004-020 |             | _       |
|         |          | HOUSING, CENTER FLANGED                                   | 1      | NG040004-316<br>70214 | 316 SS<br>316 SS | 70215                 | ALLOY C           | 70216        | ALLOY 20    | 1       |
|         |          | HOUSING, REAR   | _      |                       |                  |                       |                   |              | ALLOY 20    | _       |
|         |          | # RING, RETAINING   | 6      | 76706                 | 316 SS           | 76701                 | ALLOY C           | 76701        | ALLOY C     | 1       |
|         |          | # KEY, METAL DRIVE GEAR                                   | *1     | 71930                 | 316 SS           | 7:1904                | ALLOY C           | 71906        | ALLOY 20    | - 3     |
|         |          | # KEY, PLASTIC DRIVE GEAR                                 | -      | 71929                 | 316 55           | 7.1903                | ALLOY C           | 71905        | ALLOY 20    | 1       |
|         |          | # KEY, MTL/CBN IDLER GEAR                                 | *1     | 71930                 | 31655            | 7.1904                | ALLOY C           | 71906        | ALLOY 20    | +       |
|         |          | # KEY, PLASTIC IDLER GEAR                                 |        | 71929                 | 31655            | 7.1903                | ALLOY C           | 71905        | ALLOY 20    | $\perp$ |
|         |          | # KEY, MAGNETIC CPLG - DRIVE                              | 1      | 71933                 | 31655            | 7.1926                | ALLOY C           | 71925        | ALLOY 20    | +       |
|         |          | # O-RING, HOUSING   | 2      | 61101                 | TFE              | 61101                 | TFE               | 61101        | TEE         | $\perp$ |
|         |          | PIN, HOUSING  | 4      | 40801                 | 316 55           | 40801                 | 316 55            | 40801        | 316 SS      | $\perp$ |
|         |          | BOLT, HOUSING   | 4      | 72006                 | 188 55           | 7.2006                | 188 SS            | 72006        | 188 SS      | $\perp$ |
|         |          | NUT, HOUSING BOLT   | 4      | 72101                 | 188 SS           | 72101                 | 188 55            | 72101        | 188 55      |         |
|         |          | NAMEPLATE   | 1      | 41210                 | 188 SS           | 41210                 | 188 55            | 41210        | 188 55      | $\perp$ |
| IIONS 9 | 10       | AND 11 OPTIONS - DELETE CORRESPONDING ST.                 | ANIDAI | O PLIMP COMPON        | ENT EROM RAM     |                       |                   |              |             |         |
|         |          | HOUSING, CENTER - VENT FNPT                               | 1      | 70014-2               | 316 55           | 70 016-2              | ALLOY C           | 70015-2      | ALLOY 20    | Т       |
|         | l        | HOUSING, CENTER - VENT FBS PT                             | 1      | 70020-2               | 31655            | 70 022-2              | ALLOYC            | 70021-2      | ALLOY 20    | $^{-}$  |
|         | ν        | HOUSING, CENTER - VENT FLANGED                            | 1      | NG040008-316          | 31655            | NG040008-HC0          | ALLOY C           | NG040008-020 | ALLOY 20    | +       |
|         | 1        | PLUG, 1/8" NPT  | *1-    | W772565-316           | 316.55           | 5/2301                | ALLOY C           | 52300        | ALLOY 20    |         |
|         | +        | HOUSING, REAR - BRG FLUSH                                 | 1      | 70212                 | 316 55           | 70234                 | ALLOY C           | 70233        | ALLOY 20    | -       |
| - 1     | A        | PLUG, 1/8" NPT  | *2     | W772565-316           | 31655            | 52301                 | ALLOY C           | 52300        | ALLOY 20    | 1       |
| c       | $\vdash$ | # PIN, BEARING LOCK                                       | 3-4    | 41802                 | ALLOY 20         | 41806                 | ALLOYC            | 41802        | ALLOY 20    | T.      |
| - 1     | b        | # O-RING, HOUSING   | 2      | 61104                 | SS / PFA         | 61104                 | SS / PFA          | 61104        | SS / PFA    | +       |
|         |          | # O-RING, FRONT HOUSING                                   | 1      | 61109                 | SS / PFA         | 61109                 | SS / PFA          | 61109        | SS / PFA    | 1       |
| D _     | _        | # BEARING, SLOTTED  | 5      | 70419                 | CARBON           | 70419                 | CARBON            | 70419        | CARBON      | +       |
| ν       |          |   | 4      | 70509                 | CARBON           | 70509                 | CARBON            | 70509        |             | _       |
|         | _        | # WEAR PLATE, SLOTTED                                     | 4      | 70509                 | CARBON           | 70501                 |                   | 70501        | CARBON      | +       |
|         | 1        | # WEAR PLATE - NO N-RECIRCULATION                         | 4      | $\overline{}$         |                  |                       | CARBON            |              | CARBON      | -       |
|         | ×        | # WEAR PLATE - NO N-RECIRC (NWG)                          | -      | 70536                 | CARBON           | 70536                 | CARBON            | 70536        | CARBON      | +       |
|         | F        | # WEAR PLATE - NON-RECIRCULATION                          | **4    | 70504                 | TFE (GF)         | 70504                 | TFE (GF)          | 70504        | TFE (GF)    | +       |
|         | 1        | # WEAR PLATE - NON-RECIRCULATION                          | 4      | 70503                 | CERAMIC          | 70503                 | CERAMIC           | 70503        | CERAMIC     | +       |
|         | <u> </u> | # WEAR PLATE - NON-RECIRCULATION                          |        | 70535                 | PEEK             | 70535                 | PEEK              | 70535        | PEEK        | +       |
|         | M        |   | 1      | 79631                 | ALLOYC           |                       |                   | ,            |             | 1       |
|         | 1        | # GEAR, DRIVE / IDLER                                     | 1.2    | 70698                 | 316 SS           | *****                 | *****             |              |             | - 6     |
|         | 1        | # GEAR, DRIVE / IDLER                                     | 1-2    | 70613                 | ALLOYC           | 70613                 | ALLOY C           | 70613        | ALLOY C     | 1.6     |
|         | 1        | # GEAR, DRIVE / IDLER                                     | 1-2    | 70633                 | ALLOY 20         |                       | *****             | 70633        | ALLOY 20    | - 6     |
|         | 1        | # GEAR, I DLER  | 1      | 70651                 | CARBON           | 70651                 | CARBON            | 70651        | CARBON      | +       |
|         | N        | # GEAR, DRIVE / IDLER                                     | 1-2    | 70623                 | TFE (GF)         | 70623                 | TFE (GF)          | 70623        | TFE (GF)    | - 6     |
|         |          | # GEAR, DRIVE / IDLER                                     | 1-2    | 70677                 | PEEK             | 70677                 | PEEK              | 70677        | PEEK        | 6       |
|         | ı        | # KEY, METAL DRIVE GEAR                                   | *1     | 71931                 | 316 55           | 71911                 | ALLOY C           | 71910        | ALLOY 20    | $\perp$ |
|         | 1        | # KEY, PLASTIC DRIVE GEAR                                 |        | 71932                 | 316 55           | 71917                 | ALLOY C           | 71916        | ALLOY 20    | $\perp$ |
|         |          | # KEY, MTL / CBN IDLER GEAR                               | *1     | 71931                 | 31655            | 71911                 | ALLOYC            | 71910        | ALLOY 20    | $\perp$ |
|         | $\vdash$ | # KEY, PLASTIC IDLER GEAR                                 | -      | 71932                 | 316 55           | 71917                 | ALLOY C           | 71916        | ALLOY 20    | +       |
|         |          | DRVN MAG ASSY (WELDED) / (SAMAR)                          | 1      | 79616                 | 316 55           | 79643                 | ALLOY C           | 79662        | ALLOY 20    | $\perp$ |
|         | -        | DRV MAG ASSY, 56C FR (SAMAR)                              |        | 79604                 | STEEL            | 79604                 | STEEL             | 79604        | STEEL       | - 3     |
|         | 5        | DRV MAG ASSY,140TC FR (SAMAR)                             | 1      | 79636                 | STEEL            | 79636                 | STEEL             | 79636        | STEEL       | - 10    |
|         | 1        | DRV MAG ASSY, 71 FR (SAMAR)                               |        | 79688                 | STEEL            | 79688                 | STEEL             | 79688        | STEEL       | - 3     |
| - 1     |          | DRV MAG ASSY, 80 FR (SAMAR)                               |        | 79689                 | STEEL            | 79689                 | STEEL             | 79689        | STEEL       | - 12    |
| - 1     |          | manufacture communication plants according to             |        | 70545                 | 21000            | 70.000                | MILION C          | 70555        | 11100130    |         |
| w       |          | DRVN MAG ASSY (WELDED) / (SA/VAR)                         | 1      | 79616                 | 316 SS           | 79650                 | ALLOY C           | 79665        | ALLOY 20    | -       |

DWG: GM4P204

<sup>\*\*</sup> QTY, 8 WHEN USING NARROW WIDTH GEARS.
\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M

<sup>#</sup> DENOTES RECOMMENDED SPARE PART

### GMC4 SERIES PUMP CONSOLIDATED B / M

SECTION: MODEL GMC4
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SUPERSEDES: 11/12/04

|  |   |                                      |  |  | STANDARD PL   | JMP MATERIAL  |   |  | _  |
|--|---|--------------------------------------|--|--|---|---|---|--|--|
|  |   |                                      | 31   | 6.55   | ALL   | OYC   | ALLO  | Y 20   | 1  |
|  |   |                                      | (A, K,   | ORU)   | (C, M,  | OR V)   | (D, N, C  | DR W)  |  |
|  | DESCRIPTION   | QTY                                  | PART NUMBER  | MATERIAL   | PART NUMBER   | MATERIAL  | PART NUMBER   | MATERIAL   | ITEN   |
| OSITION 4 S  | S 5 DRIVE AND IDLER GEAR MATERIAL   |                                      |  |  |   |   |   |  |  |
| A  | # GEAR, DRIVE/IDLER   | 1-2                                  | 70695  | 316 55   |   |   |   |  | 6, 7   |
| C  | # GEAR, DRIVE/IDLER   | 1.2                                  | 70638  | ALLOYC   | 70638   | ALLOYC  | 70638   | ALLOYC   | 6, 7   |
| D  | # GEAR, DRIVE/IDLER   | 1.2                                  | 70642  | ALLOY 20   | 19000   | 1000  | 70642   | ALLOY 20   | 6, 7   |
| K  | # GEAR, IDLER   | 1                                    | 70611  | CARBON   | 70611   | CARBON  | 70611   | CARBON   | 6,   |
| Ť  | # GEAR, DRIVE/IDLER   | 1-2                                  | 70600  | TFE (GF)   | 70600   | TFE (GF)  | 70600   | TFE (GF)   | 7  |
| E  | # GEAR, DRIVE/IDLER   | 1-2                                  | 70671  | PEEK   | 70671   | PEEK  | 70671   | PEEK   | 6,   |
|  |   |                                      |  | •  |   |   |   |  |  |
| OSITION 6  | WEAR PLATE MATERIAL - **QTY 8 WHEN  | USING NARRO                          | W WIDTH GEARS  |  |   |   |   |  |  |
| K  | # WEAR PLATE, RECIRCULATION   |                                      | 70531  | CARBON   | 70.531  | CARBON  | 70531   | CARBON   | 11   |
| т  | # WEAR PLATE, RECIRCULATION   | **4                                  | 70532  | TFE (GF)   | 70.532  | TFE (GF)  | 70532   | TFE (GF)   | 11   |
| Z  | # WEAR PLATE, RECIRCULATION   |                                      | 70533  | CERAMIC  | 70.533  | CERAMIC   | 70533   | CERAMIC  | 11   |
| E  | # WEAR PLATE, RECIRCULATION   |                                      | 70542  | PEEK   | 70.542  | PEEK  | 70542   | PEEK   | 11   |
| OSITION 7<br>FANDARD C   | SHAFT AND BEARING MATERIAL<br>CONSTRUCTION<br># SHAFT, DRIVE  | 1                                    | 70396  | 316 55   | 70301   | ALLOYC  | 70305   | ALLOY 20   | 1 4  |
|  | # SHAFT, DUER   | 1                                    | 70378  | 316 SS   | 70379   | ALLOYC  | 70380   | ALLOY 20   | 5  |
| R.   |   | .5                                   | 70404  | CARBON   | 70404   | CARBON  | 70404   | CARBON   | 9  |
|  | # BEARING, DRIVE/IDLER SHAFT  |                                      |  | 316 SS   |   | ALLOYC  | _   |  | 3:   |
|  | # PIN, BEARING LOCK - DRIVEN  | 1 3                                  | 41808  |  | 41809   |   | 41810   | ALLOY 20   | 10   |
|  | # PIN, BEARING LOCK<br># SHAFT, DRIVE   | 1                                    | 41801<br>70396   | 316 SS   | 41801<br>70301  | TFE<br>ALLOY C  | 41801<br>70305  | ALLOY 20   | 4  |
|  | # SHAFT, IDLER  | 1                                    | 70378  | 316 55   | 70301   | ALLOYC  | 70380   | ALLOY 20   | 5  |
| E  | # BEARING, DRIVE/IDLER SHAFT  | 5                                    | 70431  | EWCBN  | 70431   | EWCBN   | 70431   | EWORN  | 9  |
| the state of the s |   |                                      |  | E444'D14   | 175-475.T   | LAACDIA   |   |  | - 2  |
|  |   |                                      |  | 216.66   | 41:000  | ALLIOVICE   | A1910   |  | 121  |
|  | # PIN, BEARING LOCK - DRIVEN  | 1                                    | 41808  | 316 SS   | 41809   | ALLOYC  | 41810   | ALLOY 20   |  |
|  | # PIN, BEARING LOCK - DRIVEN<br># PIN, BEARING LOCK   | 1                                    | 41808<br>41801   | TFE  | 41801   | TFE   | 41801   | ALLOY 20<br>TFE  | 10   |
|  | # PIN, BEARING LOCK - DRIVEN<br># PIN, BEARING LOCK<br># SHAFT, DRIVE   | 1<br>3<br>1                          | 41808<br>41801<br>70396  | TFE<br>316 SS  | 41801<br>70301  | TFE<br>ALLOY C  | 41801<br>70305  | ALLOY 20<br>TFE<br>ALLOY 20  | 10   |
| т  | # PIN, BEARING LOCK - DRIVEN<br># PIN, BEARING LOCK<br># SHAFT, DRIVE<br># SHAFT, I DLER  | 1<br>3<br>1                          | 41808<br>41801<br>70396<br>70378   | TFE<br>316 SS<br>316 SS  | 41801<br>70301<br>70379   | TFE<br>ALLOY C<br>ALLOY C   | 41801<br>70305<br>70380   | ALLOY 20<br>TFE<br>ALLOY 20<br>ALLOY 20  | 10<br>4<br>5                                       |
| Ť  | # PIN, BEARING LOCK - DRIVEN # PIN, BEARING LOCK # SHAFT, DRIVE # SHAFT, I DLER # BEARING, DRIVE SHAFT  | 1<br>3<br>1<br>1                     | 41808<br>41801<br>70396<br>70378<br>70401  | TFE<br>316 SS<br>316 SS<br>TFE (GF)  | 41:801<br>70:301<br>70:379<br>70:401  | ALLOY C<br>ALLOY C<br>TEE (GF)  | 41801<br>70305<br>70380<br>70401  | ALLOY 20<br>TFE<br>ALLOY 20<br>ALLOY 20<br>TFE (GF)                                  | 10<br>4<br>5                                       |
| Ť  | # PIN, BEARING LOCK - DRIVEN # PIN, BEARING LOCK # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE SHAFT # BEARING, DRIVE SHAFT  | 1<br>3<br>1                          | 41808<br>41801<br>70396<br>70378   | TFE<br>316 SS<br>316 SS  | 41801<br>70301<br>70379   | TFE<br>ALLOY C<br>ALLOY C   | 41801<br>70305<br>70380   | ALLOY 20<br>TFE<br>ALLOY 20<br>ALLOY 20  | 10<br>4<br>5<br>9                                  |
|  | # PIN, BEARING LOCK - DRIVEN # PIN, BEARING LOCK # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE SHAFT # BEARING, DRIVE/IDLER SHAFT # PIN, BEARING LOCK  | 1<br>3<br>1<br>1<br>1<br>3           | 41808<br>41801<br>70396<br>70378<br>70401<br>70402   | TFE<br>316 SS<br>316 SS<br>TFE (GF)<br>TFE (GF)  | 41:801<br>70:301<br>70:379<br>70:401<br>70:402  | TFE ALLOY C ALLOY C TFE (GF) TFE (GF)   | 41801<br>70305<br>70380<br>70401<br>70402   | ALLOY 20 TFE ALLOY 20 ALLOY 20 TFE (GF) TFE (GF)                                     | 10<br>4<br>5<br>9                                  |
|  | # PIN, BEARING LOCK - DRIVEN # PIN, BEARING LOCK # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE SHAFT # BEARING, DRIVE SHAFT  | 1<br>3<br>1<br>1<br>1<br>3           | 41808<br>41801<br>70396<br>70378<br>70401<br>70402   | TFE<br>316 SS<br>316 SS<br>TFE (GF)<br>TFE (GF)  | 41:801<br>70:301<br>70:379<br>70:401<br>70:402  | TFE ALLOY C ALLOY C TFE (GF) TFE (GF)   | 41801<br>70305<br>70380<br>70401<br>70402   | ALLOY 20 TFE ALLOY 20 ALLOY 20 TFE (GF) TFE (GF)                                     | 10<br>4<br>5<br>9<br>9                             |
|  | H PIN, BEARING LOCK - DRIVEN H PIN, BEARING LOCK H SHAFT, DRWE H SHAFT, IDLER H BEARING, DRIVE SHAFT # BEARING, DRIVE/IDLER SHAFT # PIN, BEARING LOCK WEAR - BOTH SHAFTS  | 1<br>3<br>1<br>1<br>1<br>3<br>4      | 41808<br>41801<br>70396<br>70378<br>70401<br>70402<br>41801  | TFE<br>316 SS<br>316 SS<br>TFE (GF)<br>TFE (GF)  | 41801<br>70301<br>70379<br>70401<br>70402<br>41801  | TFE ALLOYC ALLOYC TFE (GF) TFE (GF) TFE   | 41801<br>70305<br>70380<br>70401<br>70402<br>41801  | ALLOY 20 TFE ALLOY 20 ALLOY 20 TFE (GF) TFE (GF) TFE                                 | 10<br>4<br>5<br>9<br>10                            |
|  | H PIN, BEARING LOCK - DRIVEN H PIN, BEARING LOCK H SHAFT, DRIVE H SHAFT, IDLER H BEARING, DRIVE SHAFT H BEARING, DRIVE/IDLER SHAFT H PIN, BEARING LOCK WEAR - BOTH SHAFTS W SHAFT, DRIVE  | 1<br>3<br>1<br>1<br>1<br>1<br>3<br>4 | 41808<br>41801<br>70396<br>70378<br>70401<br>70402<br>41801<br>70393   | TFE<br>316 SS<br>316 SS<br>TFE (GF)<br>TFE (GF)<br>TFE   | 41801<br>70301<br>70379<br>70401<br>70402<br>41801<br>70303   | TFE ALLOY C ALLOY C TFE (GF) TFE (GF) TFE   | 41801<br>70305<br>70380<br>70401<br>70402<br>41801  | ALLOY 20 TFE ALLOY 20 ALLOY 20 TFE (GF) TFE  "CW"                                    | 10<br>4<br>5<br>9<br>9<br>10                       |
| KTENDED/V  | H PIN, BEARING LOCK - DRIVEN H PIN, BEARING LOCK H SHAFT, DRIVE H SHAFT, IDLER H BEARING, DRIVE SHAFT # BEARING, DRIVE/IDLER SHAFT # PIN, BEARING LOCK WEAR - BOTH SHAFTS # SHAFT, DRIVE # SHAFT, DILER   | 1<br>3<br>1<br>1<br>1<br>3<br>4      | 41808<br>41801<br>70396<br>70378<br>70401<br>70402<br>41801<br>70393<br>70394  | TFE 316 SS 316 SS TFE (GF) TFE (GF) TFE "CW"   | 41801<br>70301<br>70379<br>70401<br>70402<br>41801<br>70303<br>70397  | TFE ALLOYC ALLOYC TFE (GF) TFE (GF) TFE 'CW' 'CW'                                   | 41801<br>70305<br>70380<br>70401<br>70402<br>41801<br>70307<br>70308  | ALLOY 20 TFE ALLOY 20 ALLOY 20 TFE (GF) TFE (GF) TFE  "CW" "CW"                      | 100<br>4<br>5<br>9<br>9<br>100<br>4<br>5<br>9      |
| KTENDED/V  | H PIN, BEARING LOCK - DRIVEN H PIN, BEARING LOCK H SHAFT, DRIVE H SHAFT, IDLER H BEARING, DRIVE SHAFT # BEARING, DRIVE/IDLER SHAFT # PIN, BEARING LOCK  WEAR - BOTH SHAFTS # SHAFT, DRIVE # SHAFT, IDLER H BEARING, DRIVE SHAFT   | 1<br>3<br>1<br>1<br>1<br>1<br>3<br>4 | 41808<br>41801<br>70396<br>70378<br>70401<br>70402<br>41801<br>70393<br>70394<br>70431                                     | TFE 316 SS 316 SS TFE (GF) TFE (GF) TFE "CW" "CW"  | 41801<br>70301<br>70379<br>70401<br>70402<br>41801<br>70303<br>70397<br>70431                                     | TFE ALLOYC ALLOYC TFE (GF) TFE (GF) TFE 'CW' 'CW' EWCBN                             | 41801<br>70305<br>70380<br>70401<br>70402<br>41801<br>70307<br>70308<br>70431                                     | ALLOY 20 TFE ALLOY 20 ALLOY 20 TFE (GF) TFE (GF) TFE   'CW' 'CW' EWCBN               | 10<br>4<br>5<br>9<br>9<br>10<br>4<br>5<br>9        |
| XTENDED/V  | H PIN, BEARING LOCK - DRIVEN H PIN, BEARING LOCK H SHAFT, DRIVE H SHAFT, IDLER H BEARING, DRIVE SHAFT # BEARING, DRIVE SHAFT # PIN, BEARING LOCK  WEAR - BOTH SHAFTS # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, IDLER H BEARING, DRIVE SHAFT H PIN, BEARING LOCK - DRIVEN H PIN, BEARING LOCK   | 1<br>3<br>1<br>1<br>1<br>1<br>3<br>4 | 41808<br>41801<br>70396<br>70378<br>70401<br>70402<br>41801<br>70393<br>70394<br>70431<br>41808                            | TFE 316 SS 316 SS TFE (GF) TFE | 41801<br>70301<br>70379<br>70401<br>70402<br>41801<br>70303<br>70397<br>70431<br>41809                            | TFE ALLOYC ALLOYC TFE (GF) TFE (GF) TFE 'CW' 'CW' EWCBN ALLOYC                      | 41801<br>70305<br>70380<br>70401<br>70402<br>41801<br>70307<br>70308<br>70431<br>41810                            | ALLOY 20 TFE ALLOY 20 ALLOY 20 TFE (GF) TFE (GF) TFE  'CW' 'CW' EWCBN ALLOY 20       | 10<br>4<br>5<br>9<br>9<br>10<br>4<br>5<br>9        |
| XTENDED/V  | # PIN, BEARING LOCK - DRIVEN # PIN, BEARING LOCK # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE SHAFT # BEARING, DRIVE/IDLER SHAFT # PIN, BEARING LOCK  WEAR - BOTH SHAFTS # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE SHAFT # PIN, BEARING LOCK - DRIVEN  | 1<br>3<br>1<br>1<br>1<br>1<br>3<br>4 | 41808<br>41801<br>70396<br>70378<br>70401<br>70402<br>41801<br>70393<br>70394<br>70431<br>41808                            | TFE 316 SS 316 SS TFE (GF) TFE | 41801<br>70301<br>70379<br>70401<br>70402<br>41801<br>70303<br>70397<br>70431<br>41809                            | TFE ALLOYC ALLOYC TFE (GF) TFE (GF) TFE 'CW' 'CW' EWCBN ALLOYC                      | 41801<br>70305<br>70380<br>70401<br>70402<br>41801<br>70307<br>70308<br>70431<br>41810                            | ALLOY 20 TFE ALLOY 20 ALLOY 20 TFE (GF) TFE (GF) TFE  'CW' 'CW' EWCBN ALLOY 20       | 10<br>4<br>5<br>9<br>9<br>10<br>4<br>5<br>9        |
| KTENDED/V  | H PIN, BEARING LOCK - DRIVEN H PIN, BEARING LOCK H SHAFT, DRWE H SHAFT, IDLER H BEARING, DRIVE SHAFT W BEARING, DRIVE SHAFT W BEARING, DRIVE SHAFT W SHAFT, DRIVE W SHAFT, DRIVE W SHAFT, DRIVE H BEARING, DRIVE SHAFT H PIN, BEARING, LOCK WEAR - BOTH SHAFT H PIN, BEARING LOCK WEAR ("CW") - BOTH SHAFTS   | 1<br>3<br>1<br>1<br>1<br>3<br>4      | 41808<br>41801<br>70396<br>70378<br>70401<br>70402<br>41801<br>70393<br>70394<br>70431<br>41808<br>41801                   | TFE 316 SS 316 SS TFE (GF) TFE (GF) TFE "CW" "CW" EWCBN 316 SS TFE   | 41801<br>70301<br>70379<br>70401<br>70402<br>41801<br>70303<br>70397<br>70431<br>41809<br>41801                   | TFE ALLOY C ALLOY C TFE (GF) TFE (GF) TFE  ''CW' ''CW' EWCBN ALLOY C TFE            | 41801<br>70305<br>70380<br>70401<br>70402<br>41801<br>70307<br>70308<br>70431<br>41810<br>41801                   | ALLOY 20 TFE ALLOY 20 ALLOY 20 TFE (GF) TFE (GF) TFE  "CW" "CW" EWCON ALLOY 20 TFE   | 10<br>4<br>5<br>9<br>9<br>10<br>4<br>5<br>9<br>10  |
| XTENDED/V  | H PIN, BEARING LOCK - DRIVEN H PIN, BEARING LOCK H SHAFT, DRIVE H SHAFT, IDLER H BEARING, DRIVE SHAFT W BEARING, DRIVE SHAFT W PIN, BEARING LOCK  WEAR - BOTH SHAFTS W SHAFT, DRIVE W SHAFT, DILER H BEARING, DRIVE SHAFT H PIN, BEARING LOCK - DRIVEN H PIN, BEARING LOCK  /WEAR ("CW") - BOTH SHAFTS H SHAFT, DRIVE   | 1<br>3<br>1<br>1<br>1<br>3<br>4      | 41808<br>41801<br>70396<br>70378<br>70401<br>70402<br>41801<br>70393<br>70394<br>70431<br>41808<br>41801                   | TFE 316 SS 316 SS TFE (GF) TFE (GF) TFE "CW" "CW" EWGBN 316 SS TFE   | 41801<br>70301<br>70379<br>70401<br>70402<br>41801<br>70303<br>70397<br>70431<br>41809<br>41801                   | TFE ALLOY C ALLOY C TFE (GF) TFE  "CW" "CW" EWCBN ALLOY C TFE  "CW"                 | 41801<br>70305<br>70380<br>70401<br>70402<br>41801<br>70307<br>70308<br>70431<br>41810<br>41801                   | ALLOY 20 TFE ALLOY 20 ALLOY 20 TFE (GF) TFE  "CW" "CW" EWGSN ALLOY 20 TFE            | 5<br>9<br>9<br>10<br>4<br>5<br>9<br>31<br>10       |
| C C ORROSION/  | H PIN, BEARING LOCK - DRIVEN H PIN, BEARING LOCK H SHAFT, DRIVE H SHAFT, IDLER H BEARING, DRIVE SHAFT W BEARING, DRIVE/IDLER SHAFT W PIN, BEARING LOCK WEAR - BOTH SHAFTS W SHAFT, DRIVE W SHAFT, DILER H BEARING, DRIVE SHAFT H PIN, BEARING LOCK - DRIVEN H PIN, BEARING LOCK WEAR ("CW") - BOTH SHAFTS H SHAFT, DRIVE H SHAFT, DRIVE H SHAFT, DRIVE H SHAFT, DRIVE | 1<br>3<br>1<br>1<br>1<br>1<br>3<br>4 | 41808<br>41801<br>70396<br>70378<br>70401<br>70402<br>41801<br>70393<br>70394<br>70431<br>41808<br>41801<br>70393<br>70394 | TFE 316 SS 316 SS TFE (GF) TFE (GF) TFE  "CW" "CW" EWGBN 316 SS TFE  "CW"  | 41801<br>70301<br>70379<br>70401<br>70402<br>41801<br>70303<br>70397<br>70431<br>41809<br>41801<br>70303<br>70397 | TFE ALLOY C ALLOY C TFE (GF) TFE (GF) TFE  ''CW' ''CW' EWGBN ALLOY C TFE  "CW' "CW' | 41801<br>70305<br>70380<br>70401<br>70402<br>41801<br>70307<br>70308<br>70431<br>41810<br>41801<br>70307<br>70308 | ALLOY 20 TFE ALLOY 20 ALLOY 20 TFE (GF) TFE  "CW" "CW" EWGBN ALLOY 20 TFE  "CW" "CW" | 10<br>4<br>5<br>9<br>10<br>4<br>5<br>9<br>31<br>10 |

\*CO MPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

DWG: GM4P205

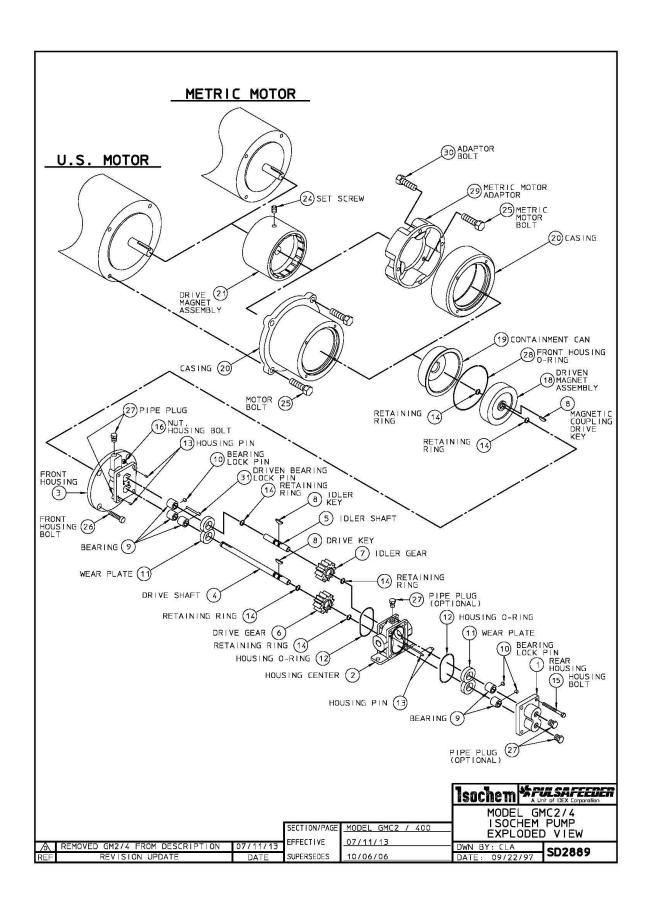
### GMC4 SERIES PUMP CONSOLIDATED B / M

SECTION: MODEL GMC4
PAGE: 206
DATE REV: 11/12/12
SUPERSEDES: 02/12/01

|               |  |               |              |                | STANDARD PU  | MP MATERIAL           |              |                 | 1    |
|---------------|--|---------------|--------------|----------------|--------------|-----------------------|--------------|-----------------|------|
|               |  |               | 316          | SS             | AULO         | DY C                  | ALLO         | Y 20            | 1    |
|               |  |               | (A, K, )     | ORU)           | {C, M,       | OR V)                 | [D, N, 0     | OR W)           |      |
|               | DESCRIPTION                                    | QTY           | PART NUMBER  | MATERIAL       | PART NUMBER  | MATERIAL              | PART NUMBER  | MATERIAL        | ITEN |
| OSITION 8     | MAGNETIC COUPLING COMPONENTS                   |               |              |                |              |                       |              |                 |      |
|               | HOUSING, FRONT                                 | _1            | 70140        | 316 55         | 70141        | ALLOYC                | 70144        | ALLOY 20        | 3    |
|               | CONTAINMENT CAN                                | 1             | 79672        | 316 SS         | 79631        | ALLOYC                | 79631        | ALLOY C         | 19   |
|               | DRIVEN MAGNET ASSY                             | 1             | 79691        | 316 SS         | 79692        | ALLOY C               | 79693        | ALLOY 20        | 18   |
| PARTS         | # O-RING, FRONT HOUSING                        | 1             | W209787-TFE  | TEE            | W209787-TFE  | TFE                   | W209787-TFE  | TFE             | 28   |
| PARIS         | BOLT, FRONT HOUSING                            | - 4           | 16717        | 188 SS         | 16717        | 188 SS                | 16717        | 18855           | 26   |
|               | PLUG, 1 / 8" NPT                               | *2            | W772565-316  | 316 SS         | 52301        | ALLOYC                | 52300        | ALLOY 20        | 27   |
|               | SET SCREW, DRIVE MAGNET ASSY                   | _1            | W771004-019  | STEEL          | W771004-019  | STEEL                 | W771004-019  | STEEL           | 24   |
|               |  |               |              |                |              |                       |              |                 |      |
| 6C FRAME CO   | OMPONENTS                                      |               | 2004         | 41.114.004.004 |              |                       |              |                 |      |
|               | CASING, 56C / 140TC FR                         | 1             | 79610        | ALUMINUM       | 79610        | ALUMINUM              | 79610        | ALUMINUM        | 20   |
| E             | DRIVE MAGNET ASSEMBLY, 56C FR                  | 1             | 79684        | STEEL          | 79684        | STEEL                 | 79684        | STEEL           | 21   |
|               | BOLT, MOTOR                                    | 4             | W770425-STL  | STEEL          | W770425-STL  | STEEL                 | W770425-STL  | STEEL           | 25   |
| ACTE FOLLAGE  | COMPONENTS                                     |               |              |                |              |                       |              |                 |      |
| 40 IL PRAIVIE | CASING, 56C / 140TC FR                         | 1             | 79610        | ALUMINUM       | 79610        | ALUMINUM              | 79610        | ALUMINUM        | 20   |
| 0             |  | $\overline{}$ | 79610        |                | 79685        | 7                     | 79610        | STEEL           | -    |
| U             | DRIVE MAGNET ASSEMBLY, 140TC FR<br>BOLT, MOTOR | 4             | W770425-STL  | STEEL          | W770425-STL  | STEEL                 | W770425-STL  | STEEL           | 21   |
|               | BOLT, MOTOR                                    | 4             | W770423-STL  | SIEEL          | W//V423-31L  | SIEEL                 | W//0423-31L  | STEEL           | 25   |
| 1 METRIC FR   | AME COMPONENTS                                 |               |              |                |              |                       |              |                 |      |
|               | CASING, 71 FRAME METRIC                        | 1             | 79681        | ALUMINUM       | 79681        | ALUMINUM              | 7968L        | ALUMINUM        | 20   |
|               | DRIVE MAGNET ASSEMBLY, 71 FR                   | 1             | 79686        | STEEL          | 79686        | STEEL                 | 79686        | STEEL           | 21   |
| J             | MOTOR ADAPTOR, 71 FR METRIC                    | 1             | 79679        | ALUMINUM       | 79679        | ALUMINUM              | 79679        | ALUMINUM        | 29   |
|               | BOLT, MOTOR ADAPTOR                            | - 4           | 16722        | STEEL          | 16722        | STEEL                 | 16722        | STEEL           | 30   |
|               | BOLT, MOTOR                                    | :4            | NP990415-STL | STEEL          | NP990415-STL | STEEL                 | NP990415-STL | STEEL           | 25   |
|               |  |               |              |                |              |                       |              |                 |      |
| O METRIC FR   | AME COMPONENTS                                 |               |              |                |              |                       |              |                 |      |
|               | CASING, 80 FRAME METRIC                        | 1             | 79681        | ALUMINUM       | 79681        | ALUMINUM              | 79681        | ALUMINUM        | 20   |
|               | DRIVE MAGNET ASSEMBLY, 80 FR                   | 1             | 79687        | STEEL          | 79687        | STEEL                 | 79687        | STEEL           | 21   |
|               | MOTOR ADAPTOR, 80 FR METRIC                    | 1             | 79680        | ALUMINUM       | 79680        | ALUMINUM              | 79680        | ALUMINUM        | 29   |
| K             | MOTOR ADAPTOR, 60 FR METRIC                    | - 4           | 7.3000       | PERMITTER      | 7.24100      | 7-11-11-11-11-11-11-1 | 1.000.0      | PILOTIPITI GIVE | _    |
| K             | BOLT, MOTOR ADAPTOR                            | 4             | 16722        | STEEL          | 16722        | STEEL                 | 16722        | STEEL           | 30   |

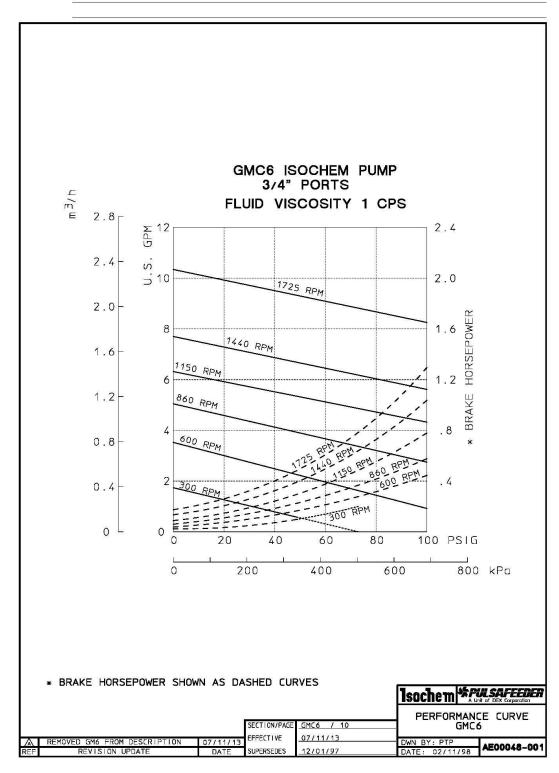
\*CO MPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

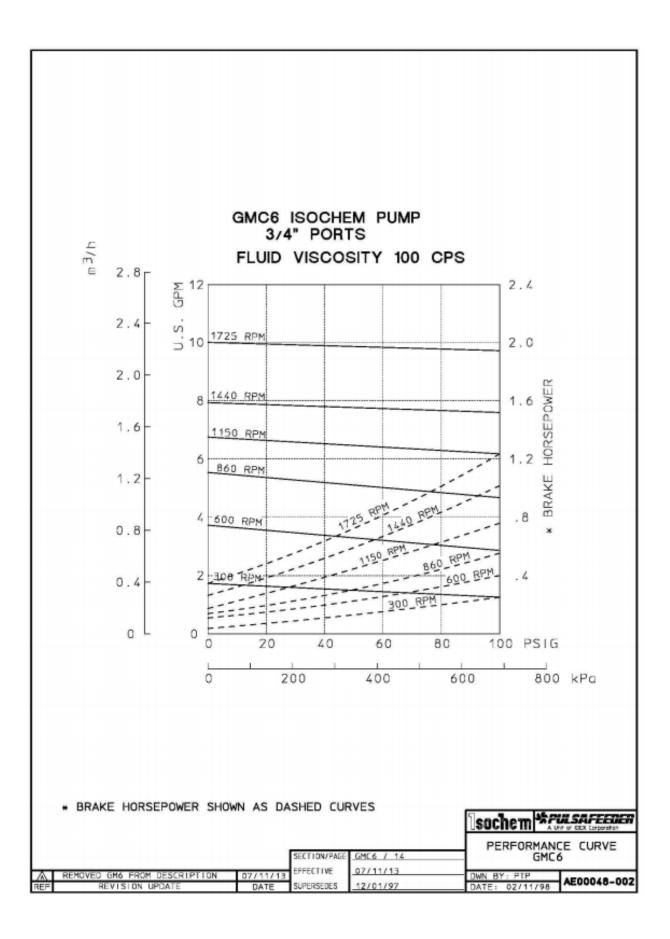
DWG: GM4P206

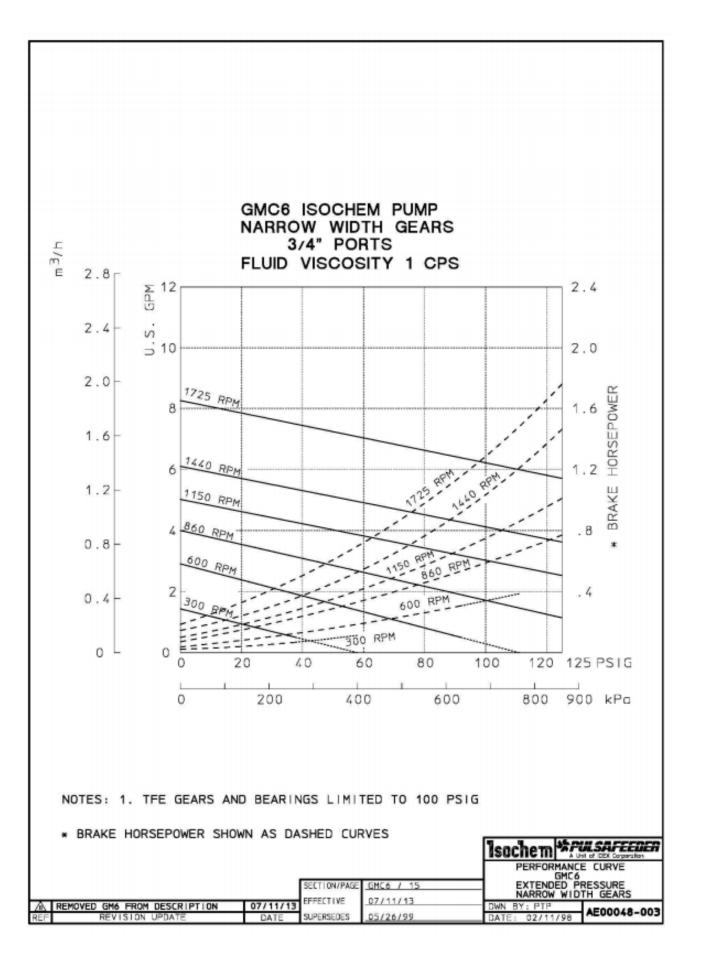


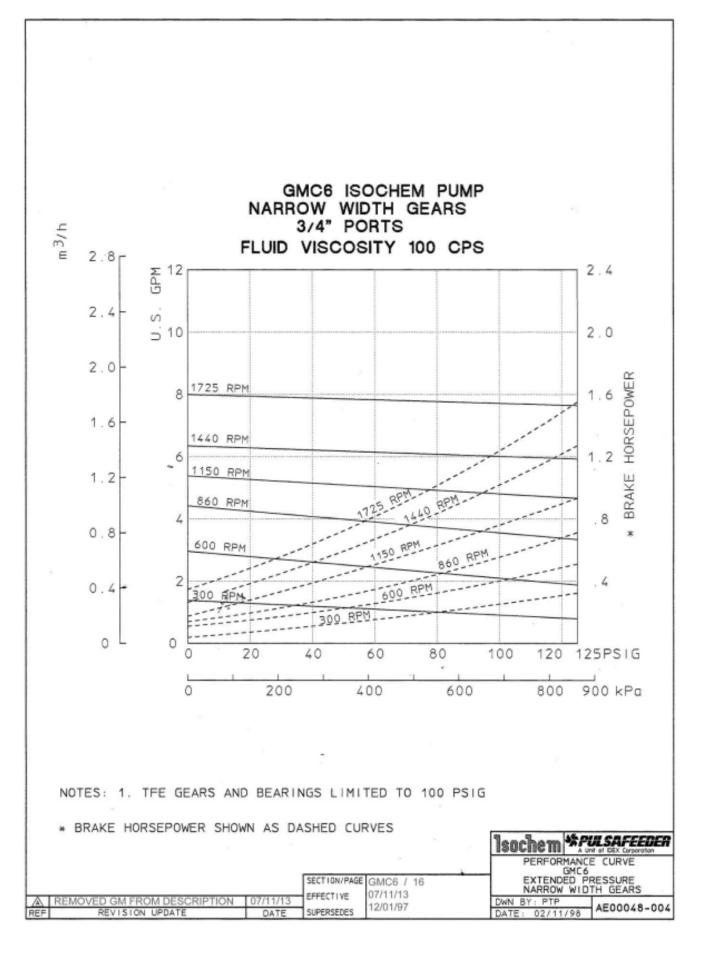
#### CERTIFIED DRAWING BY \*PULSAFEEDER

| =0R:             |   | SERIAL   | NO.:       |  |
|------------------|---|----------|------------|--|
| CUSTOMER P.O. NO | : | _ SERIAL | NO.:       |  |
|                  |   |          | ORDER NO.: |  |
| TAGG I NG :      |   |          |            |  |
|                  |   |          |            |  |









ITEM CLASS GMCG - IL PRODUCT LINE = H / ISOCHEM

#### ISOCHEM GMC6 SERIES PUMP CONSOLIDATED B / M

SECTION: PAISE! DATE REV.; SUPERSEDES:

MODEL GMC6 204 06/24/14 11/12/12

|        |               |       |  |              |                |                  | STANDARD PU    | MP MATERIAL |                |               | ٦    |
|--------|---------------|-------|--|--------------|----------------|------------------|----------------|-------------|----------------|---------------|------|
|        |               |       |  |              | 316            | 5 55             | ALLO           | DY C        | ALLO           | Y 20          | 1    |
|        |               |       |  |              | (A, K,         | OR U)            | (C, M,         | ORV)        | (D, N, C       | DRW)          |      |
|        |               |       | DESCRIPTION                                    | QTY          | PART NUMBER    | MATERIAL         | PART NUMBER    | MATERIAL    | PART NUMBER    | MATERIAL      | ITEM |
| POSITI | ON 1          |       | STANDARD PUMP - NON-VARIABLE CON               | MPONENTS     |                |                  |                |             |                |               |      |
|        |               |       | HOUSING, CENTER FNP                            |              | 40002          | 316 SS           | 40006          | ALLOY C     | 40008          | ALLOY 20      | 2    |
|        |               |       | HOUSING, CENTER FBS                            | _            | 40011          | 316 SS           | 40023          | ALLOY C     | 40017          | ALLOY 20      | 2    |
|        |               |       |  | NGED         | NG040002-316   | 316 SS           | NG040002-HC0   | ALLOY C     | NG040002-020   | ALLOY 20      | 2    |
|        |               |       | HOUSING, REAR                                  | 1            | 40218          | 316 55           | 40219          | ALLOY C     | 40220          | ALLOY 20      | 1    |
|        |               |       | # RING, RETAINING                              | 6            | 46713          | 316 SS           | 46701          | ALLOY C     | 46701          | ALLOY C       | 14   |
|        |               |       | # KEY, METAL DRIVE GEAR                        |              | 41937          | 316 SS           | 41903          | ALLOY C     | 41905          | ALLOY 20      | 8    |
|        |               |       | # KEY, PLASTIC DRIVE GEAR                      | *1           | 41938          | 316 55           | 41904          | ALLOY C     | 41906          | ALLOY 20      | 8    |
|        |               |       | # KEY, MTL / CBN IDLER GEAR                    |              | 41937          | 316 SS           | 41903          | ALLOY C     | 41905          | ALLOY 20      | 8    |
|        |               |       | # KEY, PLASTIC IDLER GEAR                      | *1           | 41938          | 316 55           | 41904          | ALLOY C     | 41906          | ALLOY 20      | 8    |
|        |               |       | # KEY, MAGNETIC CPLG - DRIVEN                  | 1            | 41939          | 316 55           | 41934          | ALLOY C     | 41933          | ALLOY 20      | 8    |
|        |               |       | # PIN, BEARING LOCK                            | 4            | 41801          | TFE              | 41801          | TFE         | 41801          | TFE           | 10   |
|        |               |       | # O-RING, HOUSING                              | 2            | 41101          | TFE              | 41101          | TFE         | 41101          | TFE           | 12   |
|        |               |       | PIN, HOUSING                                   | 4            | 40801          | 316 55           | 40901          | 316 SS      | 40801          | 316 55        | 13   |
|        |               |       | BOLT, HOUSING                                  | 4            | 62005          | 188 55           | 62005          | 188 55      | 62005          | 316 55        | 15   |
|        |               |       | NUT, HOUSING BOLT                              | 4            | 62101          | 188 55           | 62101          | 188 55      | 62101          | 188 55        | 16   |
|        |               |       | NAMEPLATE                                      | 1            | 41210          | 188 55           | 41210          | 188 SS      | 41210          | 188 55        | 20   |
|        |               |       | TOURIS OTT                                     |              | 425.20         | 200 55           | 422.20         | 20000       | 420.00         | 20000         | _    |
| vosimi | nns           | 9 10  | AND 11 OPTIONS - DELETE CORRESPOND             | ING STANDAR  | D PUMP COMPO   | JENT EROM R/M    |                |             |                |               |      |
| Collin | una           | 3,10  | HOUSING, CENTER - VENT FNPT                    | ING SIMILING | 40002-2        | 316 55           | 40006-2        | ALLOY C     | 40008-2        | ALLOY 20      | 2    |
|        |               |       | HOUSING, CENTER - VENT FBSPT                   |              | 40011-2        | 316 55           | 40023-2        | ALLOY C     | 40017-2        | ALLOY 20      | 2    |
|        |               | V     | HOUSING, CENTER - VENT FLANGED                 |              | NG040009-316   | 316 55           | NG040009-HC0   | ALLOY C     | NG040009-020   | ALLOY 20      | 2    |
|        |               |       | PLUG, 1 / 8" NPT                               | *1           | W772565-316    | 316 SS           | 52301          | ALLOY C     | 52300          | ALLOY 20      | 27   |
| $\neg$ | $\overline{}$ | +     | HOUSING, REAR - BRG FLUSH                      | 1            | 40224          | 316 55           | 40231          | ALLOY C     | 40234          | ALLOY 20      | 1    |
|        |               | A     | PLUG, 1 / 8" NPT                               | *2           | W772565-316    | 316 SS           | 52301          | ALLOY C     | 52300          | ALLOY 20      | 27   |
|        | 1,            | , H   | # PIN, BEARING LOCK                            | 4            | 41802          | ALLOY 20         | 41806          | ALLOY C     | 41802          | ALLOY 20      | 10   |
|        | Ι.            | `   B |  | 2            | 41107          | SS / PFA         | 41107          | SS / PFA    | 41107          | SS / PFA      | 12   |
|        |               | l"    | # O-RING, FRONT HOUSING                        | 1            | 41112          | SS / PFA         | 41112          | SS / PFA    | 41112          | SS / PFA      | 28   |
| - 0    | ٠,            | _     | # BEARING, SLOTTED                             | 4            | 40428          | CARBON           | 40428          | CARBON      | 40428          | CARBON        | 9    |
|        | _             |       | # WEAR PLATE, SLOTTED                          | 4            | 40511          | CARBON           | 40511          | CARBON      | 40511          | CARBON        | 11   |
| E      |               |       | # WEAR PLATE, SLOTTED                          |              | 40513          | TFE (GF)         | 40513          | TFE (GF)    | 40513          | TFE (GF)      | 11   |
| E.     |               | _     | # WEAR PLATE - NON-RECIRCULATION               |              | 40501          | CARBON           | 40501          | CARBON      | 40501          | CARBON        | 11   |
|        |               |       | # WEAR PLATE - NON-RECIRCULATION               | -            | 40504          | TFE (GF)         | 40504          | TFE (GF)    | 40501          | TFE (GF)      | 11   |
|        |               | F     | # WEAR PLATE - NON-RECIRCULATION               | - 4          | 40503          | CERAMIC          | 40503          | CERAMIC     | 40503          | CERAMIC       | 11   |
|        |               |       | # WEAR PLATE - NON-RECIRCULATION               |              | 40523          | PEEK             | 40523          | PEEK        | 40523          | PEEK          | 11   |
|        |               | N     |  | 1            | 49605          | ALLOY C          | 40523          | PEEK        | 40525          | PEEK          | 19   |
|        |               | -     | # GEAR, DRIVE / IDLER                          | 1-2          | 40727          | 316 SS           |                |             |                |               | 6,7  |
|        |               |       | # GEAR, DRIVE / IDLER                          | 1-2          | 40604          | ALLOY C          | 40604          | ALLOY C     | 40604          | ALLOY C       | -    |
|        |               |       | # GEAR, IDLER                                  | 1-2          | 40681          | CARBON           | 40681          | CARBON      | 40681          | CARBON        | 6,7  |
|        |               |       |  | 1-2          | 40648          |                  | 40648          |             | 40648          |               | _    |
|        |               | ١.    | # GEAR, DRIVE / IDLER<br># GEAR, DRIVE / IDLER | 1-2          | 40717          | TFE (GF) PEEK    | 40717          | TFE (GF)    | 40717          | TFE (GF) PEEK | 6,7  |
|        |               | "     |  | *1           | 41940          | 316 SS           | 41913          | ALLOY C     | 41920          | ALLOY 20      | 8    |
|        |               |       | # KEY, METAL DRIVE GEAR                        | -1           |                |                  |                |             |                |               | _    |
|        |               |       | # KEY, PLASTIC DRIVE GEAR                      |              | 41941          | 316 55           | 41914          | ALLOY C     | 41921          | ALLOY 20      | 8    |
|        |               |       | # KEY, MTL / CBN IDLER GEAR                    | *1           | 41940<br>41941 | 316 SS<br>316 SS | 41913<br>41914 | ALLOY C     | 41920<br>41921 | ALLOY 20      | 8    |
|        |               | +     | # KEY, PLASTIC IDLER GEAR                      | -            |                |                  |                |             |                | ALLOY 20      | _    |
|        |               |       | DRVN MAG ASSY (WELDED) / (SAMAR)               | 1            | 49616          | 316 55           | 49643          | ALLOY C     | 49664          | ALLOY 20      | 18   |
|        |               |       | DRV MAG ASSY, 56C FR (SAMAR.)                  |              | 49604          | STEEL            | 49604          | STEEL       | 49604          | STEEL         | 21   |
|        |               | 5     |  | 1            | 49636          | STEEL            | 49636          | STEEL       | 49636          | STEEL         | 21   |
|        |               |       | DRV MAG ASSY, 80 FR (SAMAR.)                   |              | 49735          | STEEL            | 49735          | STEEL       | 49735          | STEEL         | 21   |
|        |               | ∟     | DRV MAG ASSY, 90 FR (SAMAR.)                   |              | 49736          | STEEL            | 49736          | STEEL       | 49736          | STEEL         | 21   |
|        | Ľ             | N     | DRVN MAG ASSY (WELDED) / (SAMAR)               | 1            | 49616          | 316 55           | 49659          | ALLOY C     | 49662          | ALLOY 20      | 18   |
|        |               | Н     | HIGH TEMPERATURE APPLICATION                   |              | COMBINE        | PUMP             | OPTIONS        | В           | AND            | s             |      |

<sup>\*</sup>COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

DWG: GM6P204

#### **ISOCHEM GMC6 SERIES PUMP** CONSOLIDATED B / M

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|           |                                   |               |                 |          | STANDARD PUR     | VIP MATERIAL |                   |          | 7    |
|-----------|-----------------------------------|---------------|-----------------|----------|------------------|--------------|-------------------|----------|------|
|           |                                   |               | 316<br>(A, K, C |          | ALLO<br>(C, M, C |              | ALLO/<br>(D, N, C |          | 1_   |
|           | DESCRIPTION                       | QTY           | PART NUMBER     | MATERIAL | PART NUMBER      | MATERIAL     | PART NUMBER       | MATERIAL | ITE  |
| OSITION 4 | & 5 DRIVE AND IDLER GEAR MATERIAL |               |                 |          |                  |              |                   |          |      |
| A         | # GEAR, DRIVE / IDLER             | 1-2           | 40728           | 316 55   |                  |              |                   |          | 6, 7 |
| C         | # GEAR, DRIVE / IDLER             | 1-2           | 40668           | ALLOY C  | 40668            | ALLOY C      | 40668             | ALLOY C  | 6, 7 |
| D         | # GEAR, DRIVE / IDLER             | 1-2           | 40674           | ALLOY 20 |                  |              | 40674             | ALLOY 20 | 6,   |
| K         | # GEAR, IDLER                     | 1             | 40622           | CARBON   | 40622            | CARBON       | 40622             | CARBON   | 7    |
| T         | # GEAR, DRIVE / IDLER             | 1-2           | 40600           | TFE (GF) | 40600            | TFE (GF)     | 40600             | TFE (GF) | 6,   |
| Ε         | # GEAR, DRIVE / IDLER             | 1-2           | 40715           | PEEK     | 40715            | PEEK         | 40715             | PEEK     | 6,   |
| OSITION 6 | WEAR PLATE MATERIAL - ** QTY, 8 W | JEN LICING NA | DROW WINTH GEA  | D.C.     |                  |              |                   |          |      |
| K         | # WEAR PLATE, RECIRCULATION       | IER OSING NA  | 40520           | CARBON   | 40520            | CARBON       | 40520             | CARBON   | 12   |
| T         | # WEAR PLATE, RECIRCULATION       |               | 40521           | TFE (GF) | 40521            | TFE (GF)     | 40521             | TFE (GF) | 11   |
| Z         | # WEAR PLATE, RECIRCULATION       | **4           | 40522           | CERAMIC  | 40522            | CERAMIC      | 40522             | CERAMIC  | 13   |
| E         | #WEAR PLATE, RECIRCULATION        | _             | 40524           | PEEK     | 40524            | PEEK         | 40524             | PEEK     | 1    |
| ANDARD    | CONSTRUCTION                      |               |                 |          |                  |              |                   |          |      |
|           | # SHAFT, DRIVE                    | 1             | 40326           | 316 55   | 40305            | ALLOY C      | 40317             | ALLOY 20 | - 4  |
| K         | #SHAFT, IDLER                     | 1             | 40360           | 316 55   | 40362            | ALLOY C      | 40374             | ALLOY 20 | 5    |
|           | # BEARING, DRIVE / IDLER SHAFT    | 14            | 40426           | CARBON   | 40426            | CARBON       | 40426             | CARBON   | 9    |
|           | #SHAFT, DRIVE                     | 1             | 40326           | 316 55   | 40305            | ALLOY C      | 40317             | ALLOY 20 | 4    |
| L         | # SHAFT, IDLER                    | 1             | 40360           | 316 SS   | 40362            | ALLOY C      | 40374             | ALLOY 20 | - 5  |
|           | # BEARING, DRIVE / IDLER SHAFT    | -4            | 40430           | EWCBN    | 40430            | EWCBN        | 40430             | EWCBN    | 9    |
|           | # SHAFT, DRIVE                    | 1             | 40326           | 316 SS   | 40305            | ALLOY C      | 40317             | ALLOY 20 | 4    |
| Т         | #SHAFT, IDLER                     | 1             | 40360           | 316 55   | 40362            | ALLOY C      | 40374             | ALLOY 20 | - 5  |
|           | # BEARING, DRIVE / IDLER SHAFT    | 4             | 40425           | TFE (GF) | 40425            | TFE (GF)     | 40425             | TFE (GF) | 9    |
| TENDED /  | WEAR - BOTH SHAFTS                |               |                 |          |                  |              |                   |          |      |
|           | # SHAFT, DRIVE                    | 1             | 40322           | "CW"     | 40303            | "CW"         | 40318             | .cm.     | 4    |
| C         | #SHAFT, IDLER                     | 1             | 40323           | "CW"     | 40302            | "CW"         | 40319             | "cw"     | - 5  |
|           | # BEARING, DRIVE / IDLER SHAFT    | -4            | 40430           | EWCBN    | 40430            | EWCBN        | 40430             | EWCBN    | 9    |
| PROSION   | / WEAR ("CW") - BOTH SHAFTS       |               |                 |          |                  |              |                   |          |      |
|           | #SHAFT, ORIVE                     | 1             | 40322           | "CW"     | 40303            | "CW"         | 40318             | "CW"     | - 4  |
| 8         | #SHAFT, IDLER                     | 1             | 40323           | "CW"     | 40302            | "CW"         | 40319             | "CW"     | 5    |
|           | # BEARING, DRIVE / IDLER SHAFT    | - 4           | 40429           | SICBD    | .40429           | SICBD        | 40429             | SICBD    | 9    |
|           | LICINET COME                      |               |                 | 21222    |                  | 1110000      | 400.00            |          | _    |
|           | # SHAFT, DRIVE                    | 1             | 40326           | 316 SS   | 40305            | ALLOY C      | 40317             | ALLOY 20 | 4    |
| 6         | # SHAFT, IDLER                    | 1             | 40360           | 316 55   | 40362            | ALLOY C      | 40374             | ALLOY 20 | 5    |
|           | # BEARING, DRIVE / IDLER SHAFT    | 4             | 40431           | PEEK     | 40431            | PEEK         | 40431             | PEEK     | 1 9  |

\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

DWG: GM6P205

## ISOCHEM GMC6 SERIES PUMP CONSOLIDATED B / M

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|--------------|----------------------------------|-----|---------------|----------|---------------|--------------|--------------|--------------|--------------|
|              |                                  |     |               |          | STANDARD PL   | JMP MATERIAL |              |              | 1            |
|              |                                  |     | 316 9         | SS       | ALLO          | Y C          | ALLO         | OY 20        |              |
|              |                                  |     | (A, K, O      | R U)     | (C, M, C      | DR V)        | (D, N,       | OR W)        |              |
|              | DESCRIPTION                      | QTY | PART NUMBER   | MATERIAL | PART NUMBER   | MATERIAL     | PART NUMBER  | MATERIAL     | ITEM         |
| POSITION 8   | MAGNETIC COUPLING COMPONENTS     |     |               |          |               |              |              |              |              |
|              | HOUSING, FRONT                   | 1   | 40144         | 316SS    | 40145         | ALLOY C      | 40148        | ALLOY 20     | 3            |
|              | DRIVEN MAGNET ASSY               | 1   | 49738         | 316SS    | 49739         | ALLOY C      | 49740        | ALLOY 20     | 18           |
|              | CONTAINMENT CAN                  | 1   | 49672         | 316SS    | 49605         | ALLOY C      | 49605        | ALLOY C      | 19           |
| COMMON       | CASING                           | 1   | 49610         | ALUMINUM | 49610         | ALUMINUM     | 49610        | ALUMINUM     | 20           |
| PARTS        | # O-RING, FRONT<br>HOUSING       | 1   | W209729-TFE   | TFE      | W209729-TFE   | TFE          | W209729-TFE  | TFE          | 28           |
|              | BOLT, FRONT HOUSING              | 4   | W770198-188   | 188 SS   | W770198-188   | 188 SS       | W770198-188  | 188 SS       | 26           |
|              | PLUG, 1/8" NPT                   | *2  | W772565-316   | 316SS    | 52301         | ALLOY C      | 52300        | ALLOY 20     | 27           |
| 56C FRAME (  | COMPONENTS                       | •   | •             | •        |               | •            | •            | •            | •            |
|              | DRIVE MAGNET ASSEMBLY, 56C FR    | 1   | 49731         | STEEL    | 49731         | STEEL        | 49731        | STEEL        | 21           |
| F            | MOTOR SPOOL                      | 1   | 49627         | ALUMINUM | 49627         | ALUMINUM     | 49627        | ALUMINUM     | 29           |
| •            | BOLT, CASING                     | 4   | 16722         | STEEL    | 16722         | STEEL        | 16722        | STEEL        | 35           |
|              | BOLT, MOTOR                      | 4   | W770424-STL   | STEEL    | W770424-STL   | STEEL        | W770424-STL  | STEEL        | 23           |
| 140TC ERAM   | E COMPONENTS                     |     |               |          |               |              |              |              |              |
| 140101111111 | DRIVE MAGNET ASSEMBLY, 140TC FR  | 1   | 49732         | STEEL    | 49732         | STEEL        | 49732        | STEEL        | 21           |
| 0            | MOTOR SPOOL                      | 1   | 49627         | ALUMINUM | 49627         | ALUMINUM     | 49627        | ALUMINUM     | 29           |
|              | BOLT, CASING                     | 4   | 16722         | STEEL    | 16722         | STEEL        | 16722        | STEEL        | 35           |
|              | BOLT, MOTOR                      | 4   | W770424-STL   | STEEL    | W770424-STL   | STEEL        | W770424-STL  | STEEL        | 23           |
| 182 / 4TC FR | AME COMPONENTS                   | 1   |               | I        |               | I .          |              |              |              |
|              | DRIVE MAGNET ASSEMBLY, 182 / 4TC | 1   | NG200057-STL  | STEEL    | NG200057-STL  | STEEL        | NG200057-STL | STEEL        | 21           |
|              | MOTOR SPOOL                      | 1   | 49627         | ALUMINUM | 49627         | ALUMINUM     | 49627        | ALUMINUM     | 29           |
|              | BOLT, CASING                     | 4   | 16722         | STEEL    | 16722         | STEEL        | 16722        | STEEL        | 35           |
| R            | BOLT, MOTOR                      | 4   | W770424-STL   | STEEL    | W770424-STL   | STEEL        | W770424-STL  | STEEL        | 23           |
|              | ADAPTOR, MOTOR 182 /<br>4TC      | 1   | NG110018-ALU  | ALUMINUM | NG110018-ALU  | ALUMINUM     | NG110018-ALU | ALUMINUM     | 23           |
|              | ADAPTOR, SCREW                   | 4   | NP999006-STL  | STEEL    | NP999006-STL  | STEEL        | NP999006-STL | STEEL        | 23           |
| 80 METRIC F  | RAME COMPONENTS                  | - L |               | <u> </u> |               |              |              |              |              |
|              | DRIVE MAGNET                     | 1   | 49733         | STEEL    | 49733         | STEEL        | 49733        | STEEL        | 21           |
| K            | ASSEMBLY, 80 FR MOTOR SPOOL      | 1   | 49727         | ALUMINUM | 49727         | ALUMINUM     | 49727        | ALUMINUM     | 29           |
| K            | BOLT, CASING                     | 4   | 16722         | STEEL    | 16722         | STEEL        | 16722        | STEEL        | 35           |
|              | BOLT, MOTOR                      | 4   | NP990415-STL  | STEEL    | NP990415-STL  | STEEL        | NP990415-STL | STEEL        | 23           |
|              | ·                                | 1 4 | 111220412-21F | SIEEL    | 111220412-21F | SIEEL        | 14520412-21F | SIEEL        | 23           |
| JU IMETRIC F | RAME COMPONENTS                  | 1   | T             | T        |               | I            | T            | T            | <del> </del> |
|              | DRIVE MAGNET<br>ASSEMBLY, 90 FR  | 1   | 49734         | STEEL    | 49734         | STEEL        | 49734        | STEEL        | 21           |
| L            | MOTOR SPOOL                      | 1   | 49728         | ALUMINUM | 49728         | ALUMINUM     | 49728        | ALUMINUM     | 29           |
|              |                                  |     |               |          |               |              |              |              |              |

\*COMPONENT QUANTITY MAY BE CUMULATIVE

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16722

NP990478-STL

OVER ENTIRE B / M

BOLT, CASING

BOLT, MOTOR

# DENOTES

RECOMMENDED SPARE

PART

STEEL

STEEL

16722

NP990478-STL

STEEL

STEEL

16722

NP990478-STL

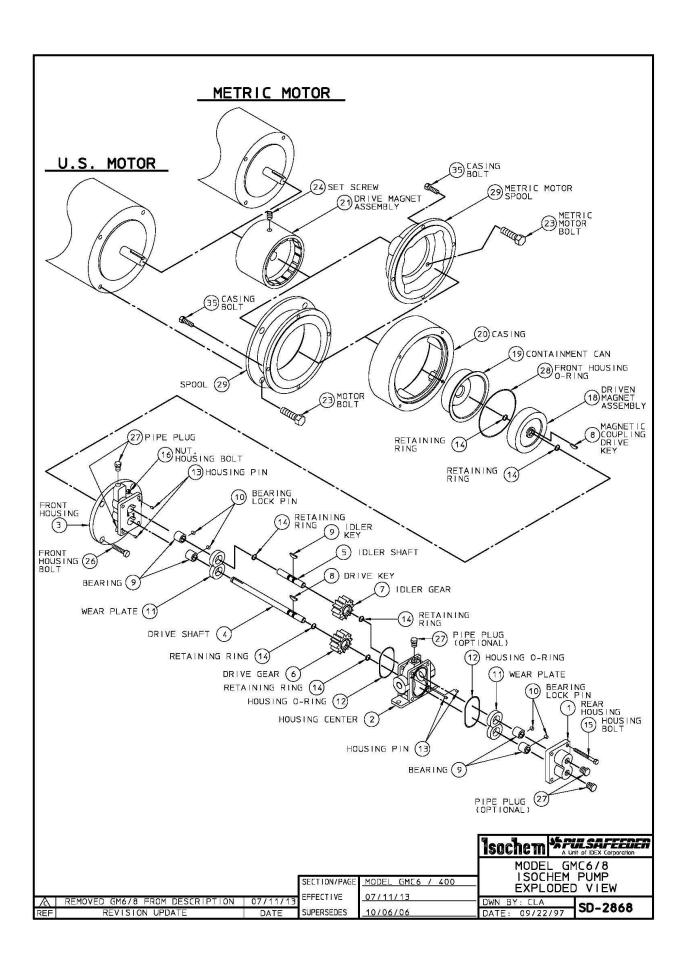
STEEL

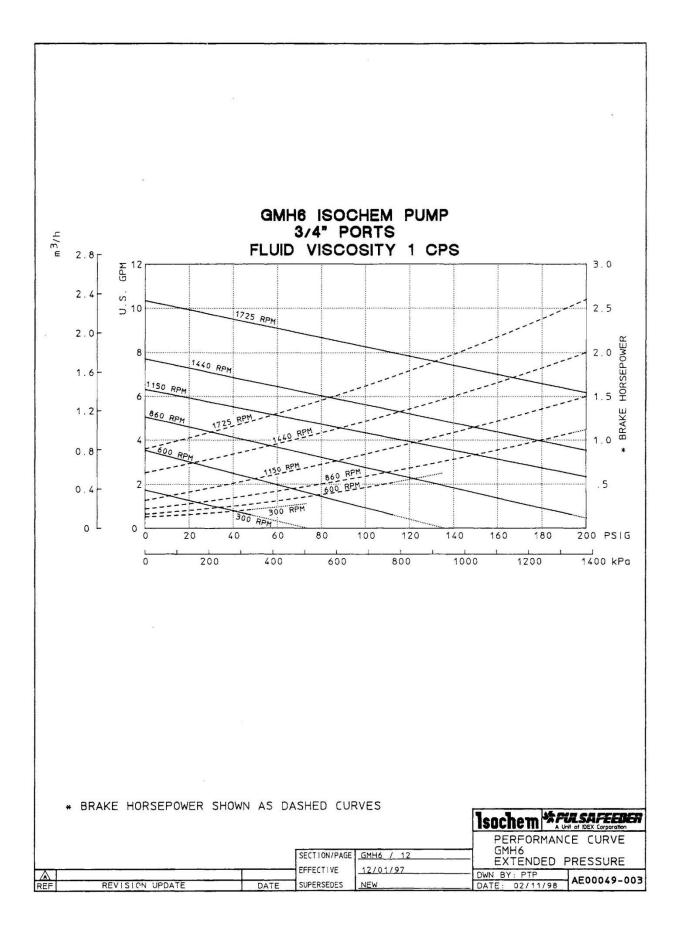
STEEL

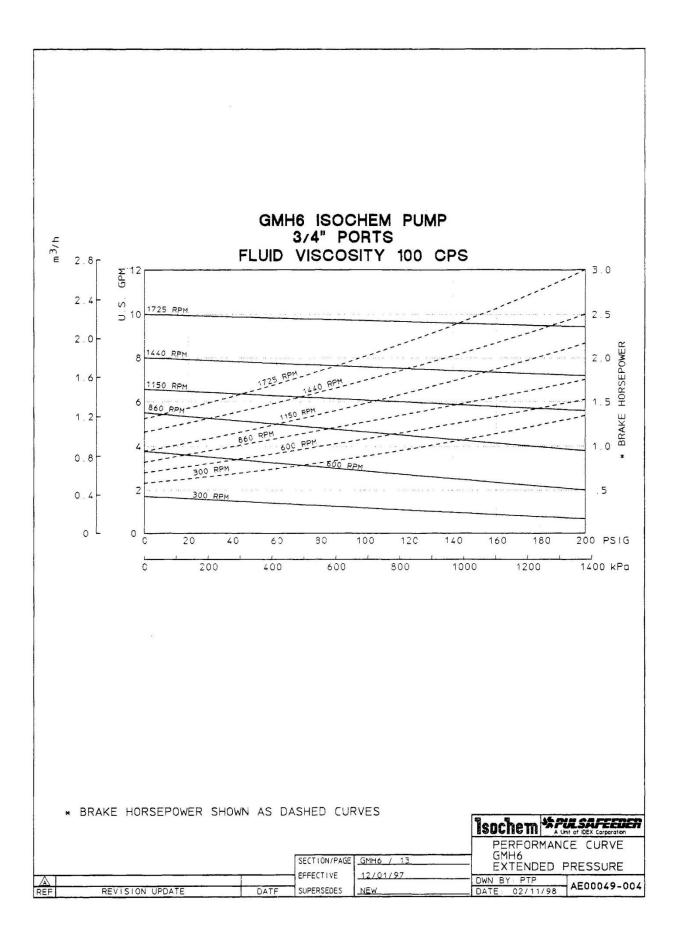
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ITEM CLASS GMH6 = IB PRODUCT LINE = H / ISOCHEM

#### **ISOCHEM GMH6 SERIES PUMP** CONSOLIDATED B / M

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|         |          |                               |                 |               |                           |                        | STANDARD PU   | IMP MATERIAL |              |          | 7    |
|---------|----------|-------------------------------|-----------------|---------------|---------------------------|------------------------|---------------|--------------|--------------|----------|------|
|         |          |                               |                 |               | 316                       | 55                     | ALLO          | DY C         | ALLO         | Y 20     | 1    |
|         |          |                               |                 |               | (A, K, t                  | OR U)                  | [C, M,        | OR V)        | (D, N, 0     | OR W)    |      |
|         |          | DESCRIPTION                   |                 | QTY           | PART NUMBER               | MATERIAL               | PART NUMBER   | MATERIAL     | PART NUMBER  | MATERIAL | ITEM |
| POSITIO | ON 3     | STANDARD PUMP - NON-VAR       | RIBLE COMPONENT | 5             |                           |                        |               |              |              |          |      |
|         |          | HOUSING, FRONT                |                 | 1             | 49678                     | 316 55                 | 49679         | ALLOY C      | 49680        | ALLOY 20 | 1    |
|         |          | HOUSING, CENTER               | ENPT            | $\overline{}$ | 40002                     | 316 55                 | 40006         | ALLOY C      | 40008        | ALLOY 20 | 2    |
|         |          | HOUSING, CENTER               | FBSPT           | 1             | 40011                     | 316 55                 | 40023         | ALLOY C      | 40017        | ALLOY 20 | 2    |
|         |          | HOUSING, CENTER               | FLANGED         | 1             | NG040002-316              | 316 SS                 | NG0400102-HC0 | ALLOY C      | NG040002-020 | ALLOY 20 | 2    |
|         |          | HOUSING, REAR                 |                 | 1             | 40247                     | 316 SS                 | 402.48        | ALLOY C      | 40249        | ALLOY 20 | 3    |
|         |          | # RING, RETAINING             | 3/4"            | 4-6           | 46714                     | 316 55                 | 46711         | ALLOY C      | 46711        | ALLOY C  | 10   |
|         |          | # RING, RETAINING             | 5/8"            | 0-2           | Y9901400-316              | 316 55                 | Y9901400-HC0  | ALLOY C      | Y9901400-HC0 | ALLOY C  | 11   |
|         |          | # KEY, METAL DRIVE GEAR       |                 | *1            | 41937                     | 316 SS                 | 41903         | ALLOY C      | 41905        | ALLOY 20 | 8    |
|         |          | # KEY, MITL/CBN IDLER GEAR    |                 | 31            | 41937                     | 316 SS                 | 41903         | ALLOY C      | 41905        | ALLOY 20 | 9    |
|         |          | # KEY, PLASTIC IDLER GEAR     |                 | , i           | 41938                     | 316 55                 | 41904         | ALLOY C      | 41906        | ALLOY 20 | 9    |
|         |          | # KEY, MAGNETIC CPLG - DRIVE  |                 | *2            | 41937                     | 316 55                 | 41903         | ALLOYIC      | 41905        | ALLOY 20 | 21   |
|         |          | # PIN, BEARING LOCK           |                 | 4             | 41811                     | TFE                    | 41811         | TFE          | 41811        | TFE      | 14   |
|         |          | # BUSHING, RECIRCULATION {    | (000)           | 1             | 99518-00                  | TFE                    | 9961.8-00     | TFE          | 99618-00     | TFE      | 23   |
|         |          | # O RING, CENTER HOUSING      |                 | 2             | 41101                     | TFE                    | 41101         | TFE          | 41101        | TFE      | 16   |
|         |          | PIN, HOUSING                  |                 | 4             | 40801                     | 316 55                 | 40801         | 316 SS       | 40801        | 316 55   | 17   |
|         |          | BOLT, HOUSING                 |                 | 4             | 62005                     | 188 55                 | 62005         | 188 SS       | 62005        | 188 55   | 18   |
|         |          | NUT, HOUSING                  |                 | 4             | 62101                     | 188 55                 | 62101         | 188 55       | 62101        | 188 55   | 19   |
|         |          | PLUG, 1/8" NPT                |                 | *2            | W772565-316               | 316 SS                 | 52301         | ALLOY C      | 52300        | ALLOY 20 | 62   |
|         |          | NA MEPLATE                    |                 | 1.            | 41210                     | 188 55                 | 41210         | 188 55       | 41210        | 188 55   | 344  |
| POSITIO | ON 9,    | 10, AND 11 OPTIONS - DELETE O |                 | TANDA         | RD PUMP COMPON<br>40002-2 | ENT FROM B/M<br>316 SS | 40006-2       | ALLOY C      | 40008-2      | ALLOY 20 | 2    |
|         | 1        | HOUSING, CENTER - VENT F      |                 | 1             | 40011-2                   | 316 55                 | 40023-2       | ALLOY C      | 40017-2      | ALLOY 20 | 2    |
|         | V        | HOUSING, CENTER - VENT FL     |                 | 1 *           | NG040009-316              | 316 55                 | NG040009-HC0  | ALLOY C      | NG040009-020 | ALLOY 20 | 2    |
|         | 1        | PLUG, 1/8" NPT                | ANGEL           | *1            | W772565-316               | 316 55                 | 52301         | ALLOY C      | 52300        | ALLOY 20 | 62   |
|         | +        | HOUSING, REAR -BRG FLUSH      |                 | 1             | 40247-2                   | 316.55                 | 40248-2       | ALLOY C      | 40249-2      | ALLOY 20 | 3    |
| 1 1     | A        | PLUG, 1/8" NPT                |                 | *2            | W772565-316               | 316 55                 | 523.01        | ALLOY C      | 52300        | ALLOY 20 | 62   |
| ء ا     | $\vdash$ | # PIN, BEARING LOCK           |                 | 4             | 41812                     | 316 55                 | 41813         | ALLOY C      | 41814        | ALLOY 20 | 14   |
| H.      |          | # O RING, CENTER HOUSING      |                 | 2             | 41107                     | SS / PFA               | 41107         | SS / PFA     | 41107        | SS / PFA | 16   |
| 1 1     | ľ        | # O RING, CONTANMENT CAN      |                 | 1-2           | W210422-002               | SS / PFA               | W210422-002   | SS / PFA     | W210422-002  | SS / PFA | 25   |
| l └     | _        | # BEARING, SLOTTED            | 3/4"            | 0-4           | 40442                     | CARBON                 | 40442         | CARBON       | 40442        | CARBON   | 12   |
| D       |          | # BEARING, SLOTTED            | 5/8"            | 0-2           | 40440                     | CARBON                 | 404.40        | CARBON       | 40440        | CARBON   | 13   |
|         | $\top$   | HOUSING, REAR -RECIRCULAT     | -               | 1             | 40247-3                   | 316 SS                 | 40248-3       | ALLOY C      | 40249-3      | ALLOY 20 | 3    |
|         | 1        | # BUSHING, RECIRCULATION (    |                 | 2             | 99618-06                  | TFE                    | 9961.8-06     | TFE          | 99618-06     | TFE      | 23   |
|         | 1_       | # WEAR PLATE, RECIRCULATION   |                 | -             | 40527                     | CARBON                 | 40527         | CARBON       | 40527        | CARBON   | 15   |
|         | B        | # WEAR PLATE, RECIRCULATION   |                 | 1             | 40529                     | TFE (GF)               | 40529         | TFE (GF)     | 40529        | TFE (GF) | 15   |
|         | 1        | # WEAR PLATE, RECIRCULATION   |                 | 4             | 40528                     | CERAMIC                | 40528         | CERAMIC      | 40528        | CERAMIC  | 15   |
|         | 1        |                               | -               | -             |                           |                        |               |              |              |          | _    |
|         |          | # WEAR PLATE, RECIRCULATION   | N               |               | 40530                     | PEEK                   | 40530         | PEEK         | 40530        | PEEK     | 15   |

<sup>\*</sup>COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

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|               |  |       |     |             |                 | STANDARD PU | MP MATERIAL      |             |                      | 1     |
|---------------|--|-------|-----|-------------|-----------------|-------------|------------------|-------------|----------------------|-------|
|               |  |       |     | 316         | 55              | ALLO        | W.C.             | ALLO        | / 20                 | 1     |
|               |  |       |     | (A, K, C    | DRU)            | (C, M,      | OR V)            | (D, N, C    | RW)                  |       |
|               | DESCRIPTION  |       | QTY | PART NUMBER | MATERIAL        | PART NUMBER | MATERIAL         | PART NUMBER | MATERIAL             | ITEM  |
| OSITION 4 &   | 5 DRIVE AND IDLER GEAR MATERIAL  |       |     |             |                 |             |                  |             |                      |       |
| A             | # GEAR, DRIVE/IDLER  | 3/4"  | 1-2 | 40729       | 316 55          |             |                  | I I         |                      | 6,7   |
| C             | # GEAR, DRIVE/IDLER  | 3/4"  | 1-2 | 40612       | ALLOY C         | 40612       | ALLOY C          | 40612       | ALLOY C              | 6, 7  |
| Ε             | # GEAR, IDLER  | 5/8"  | 1   | 40613       | PEEK            | 40613       | PEBK             | 40613       | PEEK                 | 7     |
|               |  |       |     |             |                 |             |                  |             |                      |       |
| OSITION 6     | WEAR PLATE MATERIAL  |       |     |             |                 |             |                  |             |                      |       |
| K             | # WEAR PLATE, SLOTTED  |       |     | 40511       | CARBON          | 40511       | CARBON           | 40511       | CARBON               | 15    |
| T             | # WEAR PLATE, SLOTTED  |       | - 4 | 40513       | TFE (GF)        | 40513       | TFE (GF)         | 40513       | TFE (GF)             | 15    |
| Z             | # WEAR PLATE, SLOTTED  |       |     | 40525       | CERAMIC         | 40525       | CERAMIC          | 40525       | CERAMIC              | 15    |
| 3             | # WEAR PLATE, SLOTTED  |       |     | 40526       | PEEK            | 40526       | PEEK             | 40526       | PEEK                 | 15    |
|               |  |       |     |             |                 |             |                  |             |                      |       |
| POSITION 7    | SHAFT AND BEARING MATERIAL   |       |     |             |                 |             |                  |             |                      |       |
| TANDARD C     | ONSTRUCTION  |       |     |             |                 |             |                  | 1           |                      |       |
|               | # SHAFT, DRIVE   | 2.000 | 1   | 41415       | 316 SS          | 41423       | ALLOY C          | 41424       | ALLOY 20             | 4     |
|               | #SHAFT, IDLER  | 5/8"  | - 1 | 41434       | 316 55          | 41435       | ALLOY C          | 41436       | ALLOY 20             | 5     |
| К             | # SHAFT, IDLER METAL GEAR  | 3/4"  | -   | 41428       | 316 SS          | 41429       | ALLOY C          | 41430       | ALLOY 20             | 5     |
|               | #BEARING, DRIVE/IDLER SHAFT  | 3/4"  | 2-4 | 40436       | CARBON          | 40436       | CARBON           | 40436       | CARBON               | 12    |
|               | # BEARING, IDLER SHAFT   | 5/8"  | 0-2 | 40432       | CARBON          | 40432       | CARBON           | 40432       | CARBON               | 13    |
|               | # SHAFT, DRIVE   |       | 1   | 41415       | 316 SS          | .41423      | ALLOY C          | 41424       | ALLOY 20             | 4     |
|               | #SHAFT, IDLER  | 5/8"  | 1 1 | 41434       | 316 55          | 41435       | ALLOY C          | 41436       | ALLOY 20             | 5     |
| T             | # SHAFT, IDLER METAL GEAR  | 3/4"  |     | 41428       | 316 SS          | .41429      | ALLOY C          | 41430       | ALLOY 20             | 5     |
|               | # BEARING, DRIVE/IDLER SHAFT   | 3/4"  | 2-4 | 40438       | TFE (GF)        | 40438       | TFE (GF)         | 40438       | TFE (GF)             | 12    |
|               | # BEARING, IDLER SHAFT   | 5/8"  | 0-2 | 40434       | TFE (GF)        | 40434       | TFE (GF)         | 40434       | TFE (GF)             | 13    |
| VTCNDCD LI    | FE - BEARINGS  |       |     |             |                 |             |                  |             |                      |       |
| X I ENDED LIF | # SHAFT, DRIVE   |       |     | 41415       | 316 55          | 41423       | ALLOY C          | 41424       | A110W 20             | 4     |
|               | #SHAFT, DIER   | 5/8*  | _ L | 41434       | 316 55          | 41435       | ALLOYC           | 41436       | ALLOY 20<br>ALLOY 20 | 5     |
|               | # SHAFT, IDLER METAL GEAR  | 3/4"  | - 1 | 41428       |                 | 41429       |                  | 41430       |                      | 5     |
| L             | # BEARING, DRIVE/IDLER SHAFT   | 3/4"  | 2.4 | 40437       | 316 SS<br>EWCBN | 40437       | ALLOY C<br>EWOSN | 40437       | ALLOY 20<br>EWCBN    | 12    |
|               | # BEARING, UNIVEYIDLER SHAFT   | 5/8"  | 0-2 | 40437       | EWCBN           | 40433       | EWCBN            | 40437       | EWCBN                | 13    |
|               | # BEANING, IDLES SHAFT   | 3/6   | 0-2 | 40433       | EWEBN           | 40433       | EWCDN            | 40433       | EMCBIA               | 13    |
| XTENDED LIE   | FE - BEARINGS AND SHAFTS   |       |     |             |                 |             |                  |             |                      |       |
| AT ESTEED EN  | #SHAFT, DRIVE  |       | 1   | 41425       | CW / 316 SS     | 41426       | CW / ALY C       | 41427       | CW / ALY20           | 4     |
|               | # SHAFT, IDLER   | 5/8"  |     | 41437       | CW / 316 SS     | 41438       | CW / ALY C       | 41439       | CW / ALY20           | 5     |
| C             | # SHAFT, IDLER METAL GEAR  | 3/4"  | 1   | 41431       | CW / 316 SS     | 41432       | CW / ALY C       | 41433       | CW / ALY20           | - 5   |
|               | # BEARING, DRIVE/IDLER SHAFT   | 3/4"  | 2-4 | 40437       | EWCBN           | 40437       | EWCBN            | 40437       | EWCBN                | 12, 1 |
|               | #BEARING, IDLER SHAFT  | 5/8"  | 0-2 | 40433       | EWCBN           | 40433       | EWCBN            | 40433       | EWCBN                | 13    |
|               | and the same of th | 540   | 0.0 | -10-10-0    | 277-00-1        |             |                  |             | 237-0011             |       |
| ORROSION/     | WEAR ("CW") - BOTH SHAFTS  |       |     |             |                 |             |                  |             |                      |       |
|               | #SHAFT, DRIVE  |       | 1   | 41425       | CW / 316 SS     | 41426       | CW / ALY C       | 41427       | CW / ALY20           | 4     |
|               | # SHAFT, IDLER   | 5/8"  |     | 41437       | CW / 316 SS     | 41438       | CW / ALY C       | 41439       | CW / ALY20           | 5     |
| В             | # SHAFT, IDLER METAL GEAR  | 3/4"  | 1   | 41431       | CW / 31655      | 41432       | CW / ALY C       | 41433       | CW / ALY20           | - 5   |
|               | # BEARING, DRIVE/IDLER SHAFT   | 3/4"  | 2:4 | 40439       | SICBD           | 40439       | SICBD            | 40439       | SICBD                | 12, 1 |
|               | # BEARING, IDLER SHAFT   | 5/8"  | 0-2 | 40435       | SICBD           | 40435       | SICBD            | 40435       | SICBO                | 13    |

\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

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|             |                                  |     |              |          | STANDARD PU  | MP MATERIAL |              |          | 1    |
|-------------|----------------------------------|-----|--------------|----------|--------------|-------------|--------------|----------|------|
|             |                                  |     | 316          | 55       | ALLO         | Y C         | ALLO         | Y 20     | 1    |
|             |                                  |     | {A, K, C     | RU)      | (C, M,       | OR V)       | (D, N, 0     | DRW)     |      |
|             | DESCRIPTION                      | QTY | PART NUMBER  | MATERIAL | PART NUMBER  | MATERIAL    | PART NUMBER  | MATERIAL | ITEN |
| OSITION 8   | MAGNETIC COUPLING COMPONENTS     |     |              |          |              |             |              |          |      |
|             | DRIVEN MAGNET ASSY               | 1   | 49697        | 316 55   | 49707        | ALLOY C     | 49708        | ALLOY 20 | 24   |
|             | BOLT, FRONT HOUSING/ADAPTOR      | 8   | W770407-188  | 188 55   | W770407-188  | 188 55      | W770407-188  | 188 55   | 22   |
|             | # O RING, CONTAINMENT CAN        | 1   | W210422-TFE  | TFE      | W210422-TFE  | TFE         | W210422-TFE  | TFE      | 25   |
| COMMON      | SCREW, SET                       | 2   | W771004-030  | STEEL    | W771004-030  | STEEL       | W771004-030  | STEEL    | 35   |
| PARTS       | PIN, DRIVE MAGNET/HOLDER         | 2   | W771209-003  | STEEL    | W771209-003  | STEEL       | W771209-003  | STEEL    | 34   |
|             | SCREW, SKHID DRIVE MAGNET/HOLDER | - 4 | W770027-188  | 188 55   | W770027-188  | 188 55      | W770027-188  | 188 55   | 33   |
|             | CAN, CONTAINMENT                 | 1   | 49674        | ALLOY C  | 49674        | ALLOY C     | 49674        | ALLOY C  | 26   |
|             | SCREW, CONTAINMENT CAN RING      | 8   | W770021-188  | 188 55   | W770021-188  | 188 55      | W770021-188  | 188 55   | 25   |
| 43/STC 184  | C FRAME COMPONENTS               |     |              |          |              |             |              |          |      |
|             | HOLDER, DRIVE MAGNET             | 1   | 49705        | STEEL    | 49705        | STEEL       | 49705        | STEEL    | 30   |
| COMMON      | ADAPTOR, MOTOR                   | 1   | Y1100700-ALU | ALUMINUM | Y1100700-ALU | ALUMINUM    | Y1100700-ALU | ALUMINUM | 36   |
| PARTS       | BOLT, MOTOR                      | 4   | W770425-188  | 188 55   | W770425-188  | 188 55      | W770425-188  | 188 55   | 43   |
| INGLE CONTA | NINMENT CAN COMPONENTS           |     |              |          |              |             |              |          |      |
|             | DRIVE MAGNET ASSY                | 1   | 49702        | STEEL    | 49702        | STEEL       | 49702        | STEEL    | 31   |
| 0           | RING, CONTAINMENT CAN            | 1   | 49719        | 316 55   | 49719        | 316 SS      | 49719        | 31655    | 28   |
| OUBLE CONT  | AINMENT CAN COMPONENTS           |     |              |          |              |             |              |          | _    |
|             | DRIVE MAGNET ASSY                | 1   | 49704        | STEEL    | 49704        | STEEL       | 49704        | STEEL.   | 32   |
|             | CAN ASSY, CONTAINMENT            | 1   | 49698        | 316 55   | 49699        | ALLOY C     | 49700        | ALLOY 20 | 27   |
| D           | # O RING, CONTAINMENT CAN        | *1  | W210422-TFE  | TFE      | W210422-TFE  | TFE         | W210422-TFE  | TFE      | 25   |
|             | NIPPLE, 1/8" NPT X 2.00          | 2   | W773965-208  | 316 55   | W773965-235  | ALLOY C     | W773965-145  | ALLOY 20 | 66   |
| OOL FRAME C | OMPONENTS                        |     | •            |          |              |             |              |          |      |
| COMMON      | HOLDER, DRIVE MAGNET             | 1   | 49718        | STEEL    | 49718        | STEEL       | 49718        | STEEL    | 30   |
| PARTS       | ADAPTOR, MOTOR                   | 1   | Y1101000-ALU | ALUMINUM | Y1101000-ALU | ALUMINUM    | Y1101000-ALU | ALUMINUM | 36   |
| PANIA       | BOLT, MOTOR (METRIC)             | .4  | W770533-188  | 188 55   | W770533-188  | 188 55      | W770533-188  | 188 55   | 41   |
| INGLE CONTA | AINMENT CAN COMPONENTS           |     |              |          |              |             |              |          |      |
| p           | DRIVE MAGNET ASSY                | 1   | 49702        | STEEL    | 49702        | STEEL.      | 49702        | STEEL    | 31   |
| - 1         | RING, CONTAINMENT CAN            | 1   | 49719        | 316 SS   | 49719        | 31655       | 49719        | 31655    | 28   |
| OUBLE CON   | FAINMENT CAN COMPONENTS          |     |              |          |              |             |              |          |      |
|             | DRIVE MAGNET ASSY                | 1   | 49704        | STEEL    | 49704        | STEEL       | 49704        | STEEL    | 32   |
| Q           | CAN ASSY, CONTAINMENT            | 1   | 49698        | 316 55   | 49699        | ALLOYC      | 49700        | ALLOY 20 | 27   |
| 14          | # O RING, CONTAINMENT CAN        | *1  | W210422-TFE  | TFE      | W210422-TFE  | TFE         | W210422-TFE  | TFE      | 25   |
|             | NIPPLE, 1/8" NPT X 2.00          | 2   | W773965-208  | 316 55   | W773965-235  | ALLOYC      | W773965-145  | ALLOY 20 | 66   |

\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

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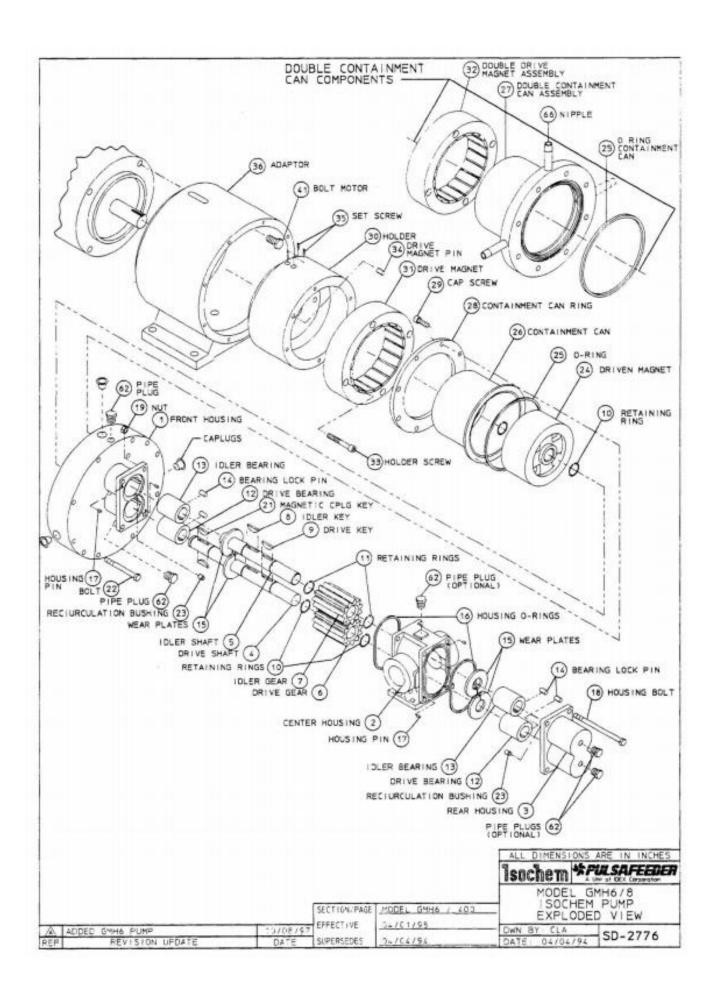
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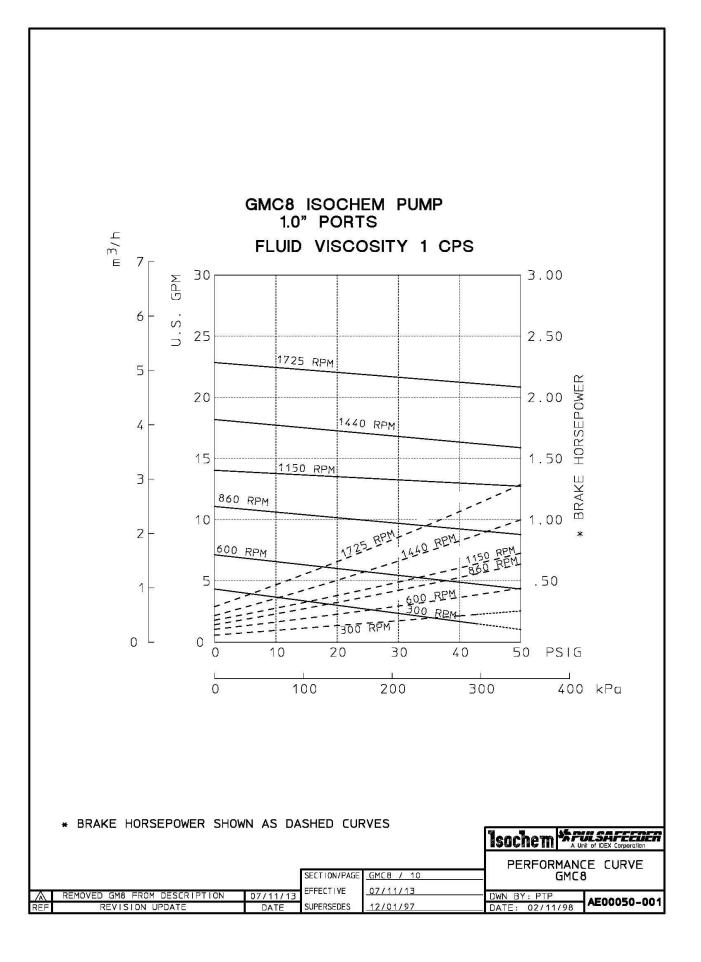
DWG: GMH6P203

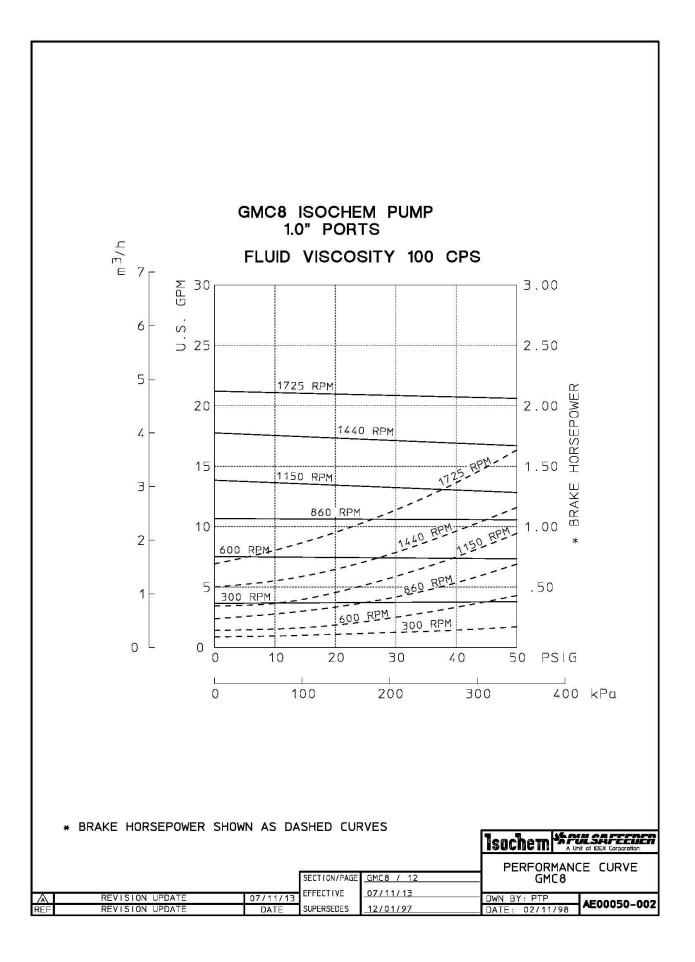
|   |                                 | - 1 |              |          | STANDARD PU  | MP MATERIAL |               |          | 1       |
|---|---------------------------------|-----|--------------|----------|--------------|-------------|---------------|----------|---------|
|   |                                 | 1   | 316          | 55       | ALLC         | DY C        | ALLO          | Y 20     | 1       |
|   |                                 |     | (A, K, I     | DRU)     | (C, M,       | OR V)       | (D, N, 0      | OR W)    |         |
|   | DESCRIPTION                     | QTY | PART NUMBER  | MATERIAL | PART NUMBER  | MATERIAL    | PART NUMBER   | MATERIAL | ITE     |
| OSITION 8                               | MAGNETIC COUPLING COMPONENTS    |     |              |          |              |             |               |          |         |
|   | DRIVEN MAGNET ASSY              | 1   | 49697        | 316 55   | 49707        | ALLOY C     | 49708         | ALLOY 20 | 2       |
|   | BOLT, FRONT HOUSING/ADAPTOR     | 8   | W770407-188  | 188 55   | W770407-188  | 188 55      | W770407-188   | 188 55   | 2       |
| COMMON                                  | # O RING, CONTAINMENT CAN       | *1  | W210422-TFE  | TFE      | W210422-TFE  | TRE         | W210422-TFE   | TFE      | 2       |
| PARTS                                   | PIN, DRIVE MAGNET/HOLDER        | 2   | W771209-003  | STEEL    | W771209-003  | STEEL       | W771209-003   | STEEL    | 3       |
| PANTS                                   | SCREW, SKHO DRIVE MAGNET/HOLDER | -4  | W770027-188  | 188 55   | W770027-188  | 188 SS      | W770027-188   | 188 55   | - 3     |
|   | CAN, CONTAINMENT                | 1   | 49674        | ALLOY C  | 49674        | ALLOY C     | 49674         | ALLOY C  | - 2     |
|   | SCREW, CONTAINMENT CAN RING     | 8   | W770021-188  | 188 55   | W770021-188  | 188 SS      | W770021-188   | 188 55   |         |
| O (ATC CD AA                            | IE COMPONENTS                   |     |              |          |              |             |               |          |         |
| M/HIL PRAN                              | HOLDER, DRIVE MAGNET            | 1   | 49757        | IRON     | 49757        | IRON        | 49757         | IRON     | T       |
|   | AGAPTOR, MOTOR                  | 1   | Y1100700-ALU | ALUMINUM | Y1100700-ALU | ALUMINUM    | YI 100700-ALU | ALUMINUM | H       |
|   | SCREW, MOTOR                    | 4   | W770580-STL  | STEEL    | W770580-STL  | STEEL       | W770580-STL   | STEEL    | 1       |
| COMMON                                  | ADAPTOR, PLATE                  | 1   | Y1101600-STL | STEEL    | Y1101600-STL | STEEL       | Y1101600-STL  | STEEL    | $\pm i$ |
| PARTS                                   | BOLT, ADAPTOR PLATE             | 4   | W770425-188  | 188 55   | W770425-188  | 188 SS      | W770425-188   | 188 SS   | 1       |
|   | WASHER, LOCK                    | - 4 | W771108-188  | 188 55   | W771108-188  | 188 55      | W771108-188   | 188 55   | Ħ       |
|   | SCREW, SET                      | 2   | W771004-030  | STEEL    | W771004-030  | STEEL       | W771004-030   | STEEL.   |         |
| NGLE CONTA                              | NINMENT CAN COMPONENTS          |     | 11111004000  | 37000    | 11772004-030 | DICCE       | 11112001030   | SICLE    | 1       |
|   | DRIVE MAGNET ASSY               | 1   | 49702        | STEEL    | 49702        | STEEL       | 49702         | STEEL.   | - 5     |
| В                                       | RING, CONTAINMENT CAN           | 1   | 49719        | 316 55   | 49719        | 316 55      | 49719         | 31655    | 1 2     |
| OUBLE CONT                              | AINMENT CAN COMPONENTS          |     |              |          |              |             |               |          |         |
|   | DRIVE MAGNET ASSY               | 1   | 49704        | STEEL    | 49704        | STEEL.      | 49704         | STEEL    | 1 2     |
| Tw.                                     | CAN ASSY, CONTAINMENT           | 1   | 49698        | 316 55   | 49699        | ALLOYC      | 49700         | ALLOY 20 | 12      |
|   | # O RING, CONTAINMENT CAN       | *1  | W210422-TFE  | TFE      | W210422-TFE  | TFE         | W210422-TFE   | TFE      | - 2     |
|   | NIPPLE, 1/8" NPT X 2.00         | 2   | W773965-208  | 316 55   | W773965-235  | ALLOYC      | W773965-145   | ALLOY 20 | 6       |
| - (**** * * * * * * * * * * * * * * * * | IE COMPONENTS                   |     |              |          |              |             |               |          |         |
| 3/51L PRAIN                             | HOLDER, DRIVE MAGNET            | 1   | 49758        | IRON     | 49758        | IRON        | 49758         | IRON     | 13      |
|   | ADAPTOR, MOTOR                  | 1   | Y1100700-ALU | ALUMINUM | Y1100700-ALU | ALUMINUM    | Y1100700-ALU  | ALUMINUM | 1       |
| COMMON                                  | SCREW, MOTOR                    | 4   | W770068-188  | 188 55   | W770068-188  | 188.55      | W770068-188   | 188 55   | -       |
| PARTS                                   | ADAPTOR, PLATE                  | 1   | Y1101700-STL | STEEL    | V1101700-STL | STEEL.      | Y1101700-STL  | STEEL    | 1       |
|   | BOLT, ADAPTOR PLATE             | 4   | W770426-188  | 188 55   | W770426-188  | 188 55      | W770426-188   | 188 55   | 1       |
|   | SCREW, SET                      | 2   | W771004-046  | STEEL    | W771004-046  | STEEL       | W771004-046   | STEEL    |         |
| NGLE CONTA                              | NINMENT CAN COMPONENTS          | -   | 11112001 040 | 57555    | 11112001040  | Ditte       | 11112004040   | 57666    |         |
|   | DRIVE MAGNET ASSY               | 1   | 49702        | STEEL    | 49702        | STEEL       | 49702         | STEEL.   | 1.5     |
| W                                       | RING, CONTAINMENT CAN           | 1   | 49719        | 316.55   | 49719        | 316 55      | 49719         | 31655    | 1       |
| OUBLE CONT                              | AINMENT CAN COMPONENTS          |     |              |          |              |             |               |          |         |
|   | DRIVE MAGNET ASSY               | 1   | 49704        | STEEL    | 49704        | STEEL       | 49704         | STEEL    | 3       |
|   | CAN ASSY, CONTAINMENT           | 1   | 49698        | 316 SS   | .49699       | ALLOYC      | 49700         | ALLOY 20 | 2       |
| Y                                       | # O RING, CONTAINMENT CAN       | *1  | W210422-TFE  | TFE      | W210422-TFE  | TFE         | W210422-TFE   | TFE      | 2       |
|   |                                 |     |              |          |              |             | W773965-145   | ALLOY 20 | 6       |

<sup>\*</sup>COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M

# DENOTES RECOMMENDED SPARE PART







ITEM CLASS GMC8 = IP PRODUCT LINE = H / ISOCHEM

#### **ISOCHEM GMC8 SERIES PUMP** CONSOLIDATED B / M

SECTION: PAGE: DATE REV.: SUPERSEDES:

MODEL GMC8 204 06 / 24 / 14 11/12/12

|            |   |                                      |      |                    |                  | STANDARD PU        | MP MATERIAL        |                    |                      | ٦    |
|------------|---|--------------------------------------|------|--------------------|------------------|--------------------|--------------------|--------------------|----------------------|------|
|            |   |                                      |      | 316                | i SS             | ALLO               |                    | ALLO               | Y 20                 | 1    |
|            |   |                                      |      | (A, K,             | OR U)            | (C, M,             | ORV)               | (D, N, 0           | ORW)                 |      |
|            |   | DESCRIPTION                          | QTY  | PART NUMBER        | MATERIAL         | PART NUMBER        | MATERIAL           | PART NUMBER        | MATERIAL             | ITEM |
| POSITION 3 |   | STANDARD PUMP - NON-VARIABLE COMPONE | NTS  |                    |                  |                    |                    |                    |                      |      |
|            |   | HOUSING, CENTER FNPT                 |      | 40052              | 316 SS           | 40053              | ALLOY C            | 40054              | ALLOY 20             | 2    |
|            |   | HOUSING, CENTER FBSPT                | 1    | 40064              | 316 SS           | 40065              | ALLOY C            | 40066              | ALLOY 20             | 2    |
|            |   | HOUSING, CENTER FLANGED              | 1    | NG040007-316       | 316 SS           | NG040007-HC0       | ALLOY C            | NG040007-020       | ALLOY 20             | 2    |
|            |   | HOUSING, REAR                        | 1    | 40218              | 316 SS           | 40219              | ALLOY C            | 40220              | ALLOY 20             | 1    |
|            |   | # RING, RETAINING                    | 6    | 46713              | 316 SS           | 46701              | ALLOY C            | 46701              | ALLOY C              | 14   |
|            |   | # KEY, METAL DRIVE GEAR              | *2   | 41937              | 316 SS           | 41903              | ALLOY C            | 41905              | ALLOY 20             | 8    |
|            |   | # KEY, PLASTIC DRIVE GEAR            | 1 *2 | 41938              | 316 SS           | 41904              | ALLOY C            | 41906              | ALLOY 20             | 8    |
|            |   | # KEY, MTL / CBN IDLER GEAR          | *2   | 41937              | 316 SS           | 41903              | ALLOY C            | 41905              | ALLOY 20             | 8    |
|            |   | # KEY, PLASTIC IDLER GEAR            | 1 ~2 | 41938              | 316 SS           | 41904              | ALLOY C            | 41906              | ALLOY 20             | 8    |
|            |   | # KEY, MAGNETIC CPLG - DRIVEN        | 1    | 41939              | 316 SS           | 41934              | ALLOY C            | 41933              | ALLOY 20             | 8    |
|            |   | # PIN, BEARING LOCK                  | 4    | 41801              | TFE              | 41801              | TFE                | 41801              | TFE                  | 10   |
|            |   | # O-RING, HOUSING                    | 2    | 41101              | TFE              | 41101              | TFE                | 41101              | TFE                  | 12   |
|            |   | PIN, HOUSING                         | 4    | 40801              | 316 SS           | 40801              | 316 SS             | 40801              | 316 SS               | 13   |
|            |   | BOLT, HOUSING                        | 4    | 62006              | 188 SS           | 62006              | 188 SS             | 62006              | 316 SS               | 15   |
|            |   | NUT. HOUSING BOLT                    | 4    | 62101              | 188 SS           | 62101              | 188 SS             | 62101              | 188 SS               | 16   |
|            |   | NAMEPLATE                            | 1    | 41210              | 188 SS           | 41210              | 188 SS             | 41210              | 188 SS               |      |
|            | ٧ | HOUSING, CENTER - VENT FBSPT         | 1    | 40052-2<br>40064-2 | 316 SS<br>316 SS | 40053-2<br>40065-2 | ALLOY C<br>ALLOY C | 40054-2<br>40066-2 | ALLOY 20<br>ALLOY 20 | 2    |
|            | ٧ | HOUSING, CENTER - VENT FLANGED       |      | NG040010-316       | 316 SS           | NG040010-HC0       | ALLOY C            | NG040010-020       | ALLOY 20             | 2    |
|            |   | PLUG, 1/8" NPT                       | *1   | W772565-316        | 316 SS           | 52301              | ALLOY C            | 52300              | ALLOY 20             | 27   |
|            | Α | HOUSING, REAR - BRG FLUSH            | 1    | 40224              | 316 SS           | 40231              | ALLOY C            | 40234              | ALLOY 20             | 1    |
|            | ^ | PLUG, 1/8" NPT                       | *2   | W772565-316        | 316 SS           | 52301              | ALLOY C            | 52300              | ALLOY 20             | 27   |
| C          |   | # PIN, BEARING LOCK                  | 4    | 41802              | ALLOY 20         | 41806              | ALLOY C            | 41802              | ALLOY 20             | 10   |
|            | В | # O-RING, HOUSING                    | 2    | 41107              | SS / PFA         | 41107              | SS / PFA           | 41107              | SS / PFA             | 12   |
|            |   | # O-RING, FRONT HOUSING              | 1    | 41112              | SS / PFA         | 41112              | SS / PFA           | 41112              | SS / PFA             | 28   |
| D          |   | # BEARING, SLOTTED                   | 4    | 40428              | CARBON           | 40428              | CARBON             | 40428              | CARBON               | 9    |
|            |   | # WEAR PLATE, SLOTTED                | 4    | 40511              | CARBON           | 40511              | CARBON             | 40511              | CARBON               | 11   |
| E          |   | # WEAR PLATE, SLOTTED                | 1    | 40513              | TFE (GF)         | 40513              | TFE (GF)           | 40513              | TFE (GF)             | 11   |
|            |   | # WEAR PLATE - NON-RECIRCULATION     |      | 40501              | CARBON           | 40501              | CARBON             | 40501              | CARBON               | 11   |
|            | F | # WEAR PLATE - NON-RECIRCULATION     | 4    | 40504              | TFE (GF)         | 40504              | TFE (GF)           | 40504              | TFE (GF)             | 11   |
|            | г | # WEAR PLATE - NON-RECIRCULATION     | ] "  | 40503              | CERAMIC          | 40503              | CERAMIC            | 40503              | CERAMIC              | 11   |
|            |   | # WEAR PLATE - NON-RECIRCULATION     |      | 40523              | PEEK             | 40523              | PEEK               | 40523              | PEEK                 | 11   |
| [          | М | CONTAINMENT CAN                      | 1    | 49605              | ALLOY C          |                    |                    |                    |                      | 19   |
|            |   | DRVN MAG ASSY (WELDED) / (SAMAR)     | 1    | 49616              | 316 SS           | 49643              | ALLOY C            | 49664              | ALLOY 20             | 18   |
|            |   | DRV MAG ASSY, 56C FR (SAMAR)         |      | 49604              | STEEL            | 49604              | STEEL              | 49604              | STEEL                | 21   |
|            | S | DRV MAG ASSY,140TC FR (SAMAR)        | 1    | 49636              | STEEL            | 49636              | STEEL              | 49636              | STEEL                | 21   |
|            |   | DRV MAG ASSY, 80 FR (SAMAR)          | ] 1  | 49735              | STEEL            | 49735              | STEEL              | 49735              | STEEL                | 21   |
|            |   | DRV MAG ASSY, 90 FR (SAMAR)          |      | 49736              | STEEL            | 49736              | STEEL              | 49736              | STEEL                | 21   |
| w          |   | DRVN MAG ASSY (WELDED) / (SAMAR)     | 1    | 49616              | 316 SS           | 49659              | ALLOY C            | 49662              | ALLOY 20             | 18   |
|            | Н | HIGH TEMPERATURE APPLICATION         |      | COMBINE            | PUMP             | OPTIONS            | В                  | AND                | S                    |      |

<sup>\*</sup>COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

# ISOCHEM GMC8 SERIES PUMP CONSOLIDATED B / M

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|              |  | 1                                 |   |   | STANDARD PUN  | AP MATERIAL  |   |  | 1                               |
|--------------|--|-----------------------------------|---|---|---|--|---|--|---------------------------------|
|              |  |                                   | SERIO (150-149) |   | ALLO  | Y C  | ALLOY 20<br>(D, N, OR W)  |  | 7                               |
|              |  |                                   |   |   | (C, M, C  | DR V)  |   |  |                                 |
|              | DESCRIPTION  | QTY                               | PART NUMBER   | MATERIAL  | PART NUMBER   | MATERIAL   | PART NUMBER   | MATERIAL   | ITEM                            |
| POSITION 4 8 | 5 DRIVE AND IDLER GEAR MATERIAL  |                                   |   |   |   |  |   |  |                                 |
| Α            | # GEAR, DRIVE / IDLER  | 1-2                               | 40684   | 316 SS  |   | 2  |   | 2===5  | 6, 7                            |
| С            | # GEAR, DRIVE / IDLER  | 1-2                               | 40689   | ALLOY C   | 40689   | ALLOY C  | 40689   | ALLOY C  | 6, 7                            |
| D            | # GEAR, DRIVE / IDLER  | 1-2                               | 40691   | ALLOY 20  |   |  | 40691   | ALLOY 20   | 6, 7                            |
| К            | # GEAR, IDLER  | 1                                 | 40623   | CARBON  | 40623   | CARBON   | 40623   | CARBON   | 7                               |
| T            | # GEAR, DRIVE / IDLER  | 1-2                               | 40701   | TFE (GF)  | 40701   | TFE (GF)   | 40701   | TFE (GF)   | 6,7                             |
| E            | # GEAR, DRIVE / IDLER  | 1-2                               | 40716   | PEEK  | 40716   | PEEK   | 40716   | PEEK   | 6, 7                            |
| POSITION 6   | WEAR PLATE MATERIAL  |                                   |   |   |   |  |   |  |                                 |
| K            | # WEAR PLATE MATERIAL  # WEAR PLATE, RECIRCULATION   |                                   | 40520   | CARBON  | 40520   | CARBON   | 40520   | CARBON   | 11                              |
| т            | # WEAR PLATE, RECIRCULATION  |                                   | 40521   | TFE (GF)  | 40521   | TFE (GF)   | 40521   | TFE (GF)   | 11                              |
| Z            | # WEAR PLATE, RECIRCULATION  | 4                                 | 40522   | CERAMIC   | 40522   | CERAMIC  | 40522   | CERAMIC  | 11                              |
| E            | # WEAR PLATE, RECIRCULATION  |                                   | 40524   | PEEK  | 40524   | PEEK   | 40524   | PEEK   | 11                              |
|              | II WENT ENTE, NEONEO ENTON   |                                   | 10321   | J LLK   | 10321   | , cen  | 10321   | JI EEK   | 1 11                            |
| POSITION 7   | SHAFT AND BEARING MATERIAL   |                                   |   |   |   |  |   |  |                                 |
| TANDARD C    | ONSTRUCTION  |                                   |   |   |   |  |   |  |                                 |
|              | # SHAFT, DRIVE   | 1                                 | 40336   | ALLOY 20  | 40316   | ALLOY C  | 40336   | ALLOY 20   | 4                               |
| К            | # SHAFT, IDLER   | 1                                 | 40350   | ALLOY 20  | 40346   | ALLOY C  | 40350   | ALLOY 20   | 720                             |
|              | # BEARING, DRIVE / IDLER SHAFT   | 4                                 | 40426   |   |   |  | 10000   | ALLUT 20   | 5                               |
|              | The second of th | : <del></del>                     | 40420   | CARBON  | 40426   | CARBON   | 40426   | CARBON   | 9                               |
|              | # SHAFT, DRIVE   | 1                                 | 40336   | CARBON<br>ALLOY 20  | 40426<br>40316  |  | 0.000.00  |  | _                               |
| Ĕ            |  | 1, 1017                           |   |   |   | CARBON   | 40426   | CARBON   | 9                               |
| Ĭ            | #SHAFT, DRIVE  | 1                                 | 40336   | ALLOY 20  | 40316   | CARBON<br>ALLOY C  | 40426<br>40336  | CARBON<br>ALLOY 20   | 9                               |
| Ŭ            | # SHAFT, DRIVE<br># SHAFT, IDLER   | 1                                 | 40336<br>40350  | ALLOY 20<br>ALLOY 20  | 40316<br>40346  | CARBON<br>ALLOY C<br>ALLOY C   | 40426<br>40336<br>40350   | CARBON<br>ALLOY 20<br>ALLOY 20                                       | 9<br>4<br>5                     |
| Ĭ.           | # SHAFT, DRIVE<br># SHAFT, IDLER<br># BEARING, DRIVE / IDLER SHAFT   | 1<br>1<br>4                       | 40336<br>40350<br>40430   | ALLOY 20<br>ALLOY 20<br>EWCBN                                       | 40316<br>40346<br>40430   | CARBON<br>ALLOY C<br>ALLOY C<br>EWCBN  | 40426<br>40336<br>40350<br>40430  | CARBON ALLOY 20 ALLOY 20 EWCBN                                       | 9<br>4<br>5<br>9                |
| ľ            | # SHAFT, DRIVE<br># SHAFT, IDLER<br># BEARING, DRIVE / IDLER SHAFT<br># SHAFT, DRIVE   | 1<br>1<br>4<br>1                  | 40336<br>40350<br>40430<br>40336  | ALLOY 20<br>ALLOY 20<br>EWCBN<br>ALLOY 20                           | 40316<br>40346<br>40430<br>40316  | CARBON ALLOY C ALLOY C EWCBN ALLOY C   | 40426<br>40336<br>40350<br>40430<br>40336                                     | CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20                              | 9<br>4<br>5<br>9<br>4           |
|              | # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT  | 1<br>1<br>4<br>1                  | 40336<br>40350<br>40430<br>40336<br>40350   | ALLOY 20<br>ALLOY 20<br>EWCBN<br>ALLOY 20<br>ALLOY 20               | 40316<br>40346<br>40430<br>40316<br>40346                                     | CARBON ALLOY C ALLOY C EWCBN ALLOY C ALLOY C                                   | 40426<br>40336<br>40350<br>40430<br>40336<br>40350                            | CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20                     | 9<br>4<br>5<br>9<br>4<br>5      |
|              | # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT  WEAR - BOTH SHAFTS  | 1 1 4 1 1 4 4                     | 40336<br>40350<br>40430<br>40336<br>40350<br>40425  | ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)                  | 40316<br>40346<br>40430<br>40316<br>40346<br>40425                            | CARBON ALLOY C ALLOY C EWCBN ALLOY C ALLOY C TFE (GF)                          | 40426<br>40336<br>40350<br>40430<br>40336<br>40350<br>40425                   | CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 ALLOY 20 TFE (GF)   | 9<br>4<br>5<br>9<br>4<br>5<br>9 |
| EXTENDED /   | # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT  WEAR - BOTH SHAFTS # SHAFT, DRIVE   | 1 1 4 1 1 4                       | 40336<br>40350<br>40430<br>40336<br>40350<br>40425  | ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)                  | 40316<br>40346<br>40430<br>40316<br>40346<br>40425                            | CARBON ALLOY C ALLOY C EWCBN ALLOY C ALLOY C TFE (GF)                          | 40426<br>40336<br>40350<br>40430<br>40336<br>40350<br>40425                   | CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)            | 9<br>4<br>5<br>9<br>4<br>5<br>9 |
|              | # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT  WEAR - BOTH SHAFTS # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, IDLER   | 1 1 4 1 1 4 4 1 1 1 1 1 1 1 1 1 1 | 40336<br>40350<br>40430<br>40336<br>40350<br>40425<br>40332<br>40332<br>40333   | ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)  "CW" "CW"       | 40316<br>40346<br>40430<br>40316<br>40346<br>40425<br>40306<br>40308          | CARBON ALLOY C ALLOY C EWCBN ALLOY C ALLOY C TFE (GF)  "CW"                    | 40426<br>40336<br>40350<br>40430<br>40336<br>40350<br>40425<br>40332<br>40332 | CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)  "CW" "CW" | 9<br>4<br>5<br>9<br>4<br>5<br>9 |
| EXTENDED /   | # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT  WEAR - BOTH SHAFTS # SHAFT, DRIVE   | 1 1 4 1 1 4                       | 40336<br>40350<br>40430<br>40336<br>40350<br>40425  | ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)                  | 40316<br>40346<br>40430<br>40316<br>40346<br>40425                            | CARBON ALLOY C ALLOY C EWCBN ALLOY C ALLOY C TFE (GF)                          | 40426<br>40336<br>40350<br>40430<br>40336<br>40350<br>40425                   | CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)            | 9<br>4<br>5<br>9<br>4<br>5<br>9 |
| C C          | # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT  WEAR - BOTH SHAFTS # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, IDLER   | 1 1 4 1 1 4 4 1 1 1 1 1 1 1 1 1 1 | 40336<br>40350<br>40430<br>40336<br>40350<br>40425<br>40332<br>40332<br>40333   | ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)  "CW" "CW"       | 40316<br>40346<br>40430<br>40316<br>40346<br>40425<br>40306<br>40308          | CARBON ALLOY C ALLOY C EWCBN ALLOY C ALLOY C TFE (GF)  "CW"                    | 40426<br>40336<br>40350<br>40430<br>40336<br>40350<br>40425<br>40332<br>40332 | CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)  "CW" "CW" | 9<br>4<br>5<br>9<br>4<br>5<br>9 |
| C C          | # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT  WEAR - BOTH SHAFTS # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DRIVE # BEARING, DRIVE / IDLER SHAFT   | 1 1 4 1 1 4 4 1 1 1 1 1 1 1 1 1 1 | 40336<br>40350<br>40430<br>40336<br>40350<br>40425<br>40332<br>40332<br>40333   | ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)  "CW" "CW"       | 40316<br>40346<br>40430<br>40316<br>40346<br>40425<br>40306<br>40308          | CARBON ALLOY C ALLOY C EWCBN ALLOY C ALLOY C TFE (GF)  "CW"                    | 40426<br>40336<br>40350<br>40430<br>40336<br>40350<br>40425<br>40332<br>40332 | CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)  "CW" "CW" | 9<br>4<br>5<br>9<br>4<br>5<br>9 |
| C C          | # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT  WEAR - BOTH SHAFTS # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT  / WEAR ("CW") - BOTH SHAFTS  | 1 1 4 1 1 4 4 4 4                 | 40336<br>40350<br>40430<br>40336<br>40350<br>40425<br>40425<br>40332<br>40333<br>40430  | ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)  "CW" "CW" EWCBN | 40316<br>40346<br>40430<br>40316<br>40346<br>40425<br>40306<br>40308<br>40430 | CARBON ALLOY C ALLOY C EWCBN ALLOY C ALLOY C ALLOY C TFE (GF)  "CW" "CW" EWCBN | 40426<br>40336<br>40336<br>40430<br>40430<br>40336<br>40350<br>40425<br>40425 | CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)  "CW" "CW" | 9<br>4<br>5<br>9<br>4<br>5<br>9 |

<sup>\*</sup>COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

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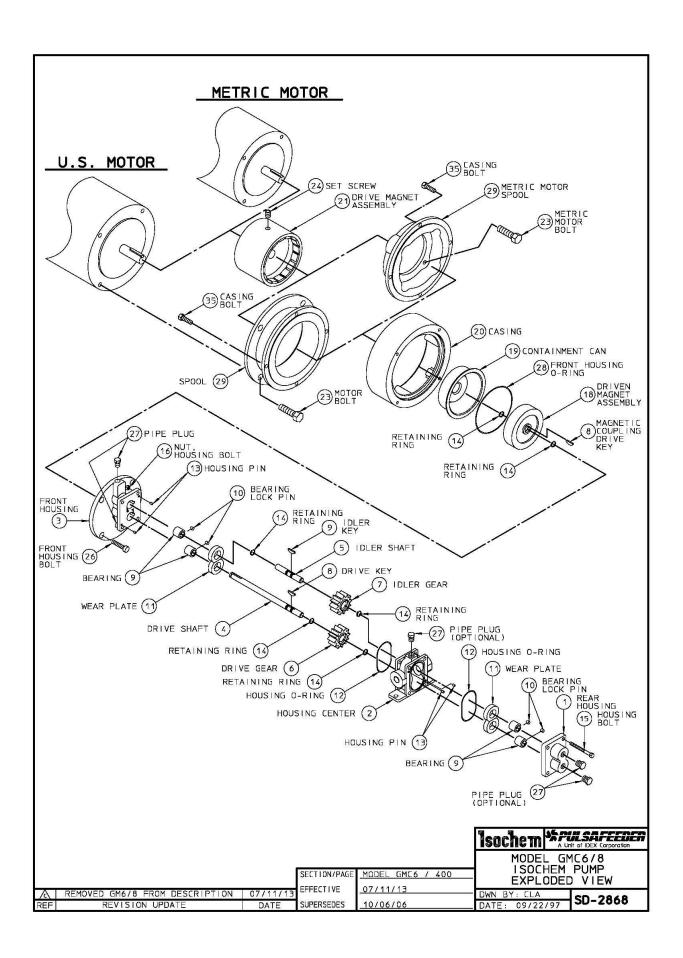
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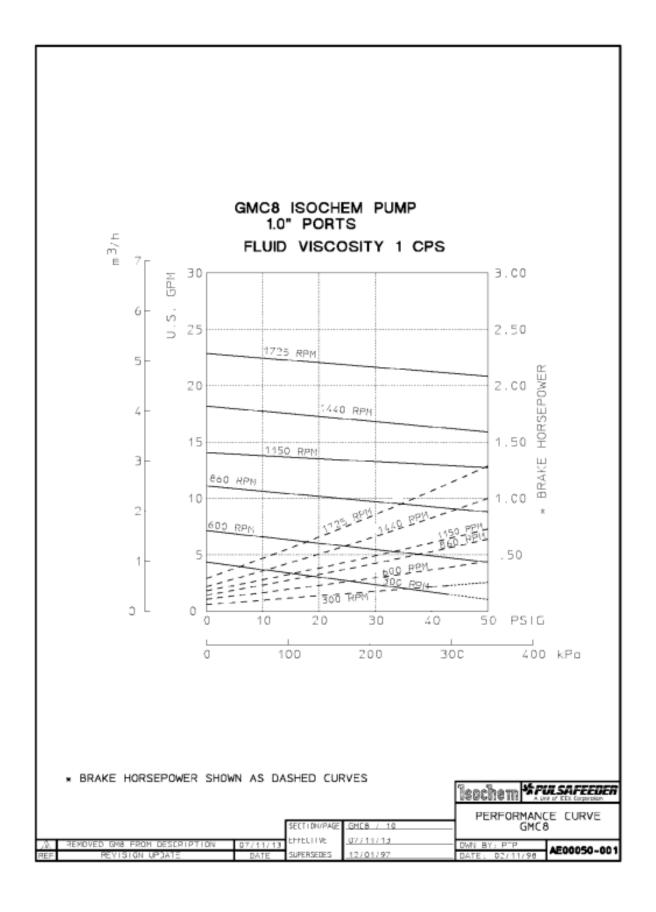
DWG: GM8P206

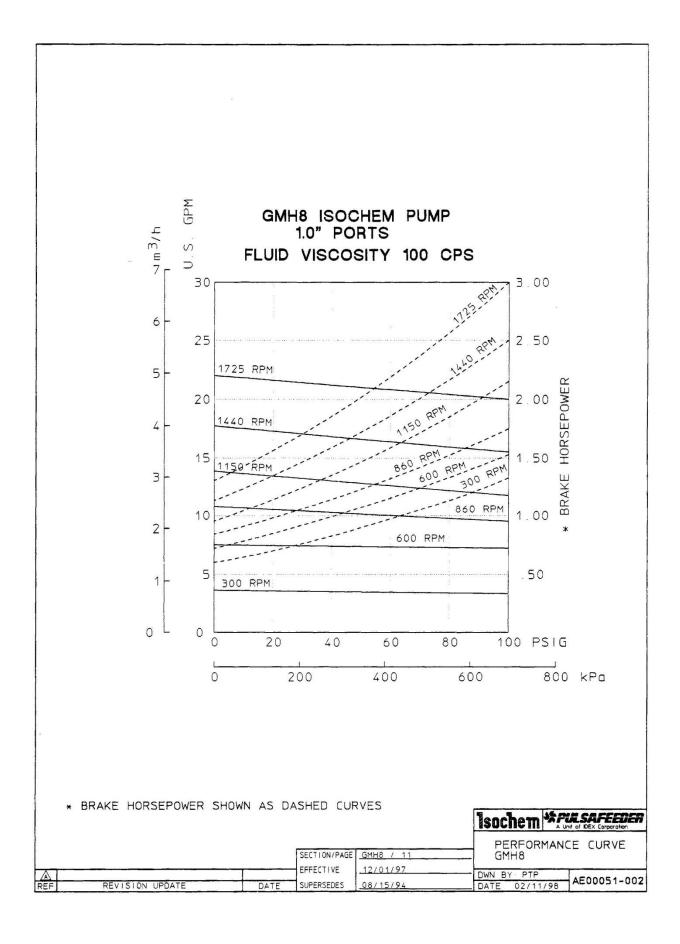
DATE REV.: 04 / 14 / 21 SUPERSEDES: 06 / 24 / 14

| DESCRIPTION  POSITION 8  MAGNETIC COUCOMPONENTS  HOUSING, FRON DRIVEN MAGNET CONTAINMENT CASING # O-RING, FRONT BOLT, FRONT HO PLUG, 1/8" NPT  56C FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C F. MOTOR SPOOL BOLT, CASING BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC MOTOR SPOOL BOLT, CASING BOLT, MOTOR 182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C F. MOTOR SPOOL BOLT, CASING BOLT, MOTOR ADAPTOR, MOTOR ADAPTOR, MOTOR BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR BOLT, CASING BOLT, CASING BOLT, MOTOR BOLT, CASING BOLT, CASING BOLT, CASING BOLT, MOTOR BOLT, CASING  |        |     |   |                               |              |                             | SUPERSEDES:  | 06 / 24 / 14  |      |  |  |
|--|--------|-----|---|-------------------------------|--------------|-----------------------------|--------------|---------------|------|--|--|
| POSITION 8  MAGNETIC COL COMPONENTS  HOUSING, FROM DRIVEN MAGNET CONTAINMENT CASING # O-RING, FRONT BOLT, FRONT HO PLUG, 1/8" NPT  FOR WAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR 140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC MOTOR SPOOL BOLT, CASING BOLT, MOTOR 182/4 TC FRAME COMPONENTS  PRIVE MAGNET ASSEMBLY, 140TC MOTOR SPOOL BOLT, CASING BOLT, MOTOR BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  BOLT, CASING BOLT, MOTOR  ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  BOLT, CASING BOLT, MOTOR  ADAPTOR, MOT BOLT, ADAPTOR  BOLT, ADAPTOR  BOLT, ADAPTOR  BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR  PO METRIC FRAME COMPONENT  DRIVE MAGNET ASSEMBLY, 90 FR  |        |     | STANDARD PUMP MATERIAL                  |                               |              |                             |              |               |      |  |  |
| POSITION 8  MAGNETIC COLCOMPONENTS  HOUSING, FROM DRIVEN MAGNET CONTAINMENT CASING # O-RING, FRONT HOUSING, FRONT BOLT, FRONT HOUSING, FROM HOUSING, F |        | İ   | 316 S                                   | iS                            | ALLO         | / C                         | ALLO         | OY 20         |      |  |  |
| POSITION 8  MAGNETIC COLCOMPONENTS  HOUSING, FROM DRIVEN MAGNET CONTAINMENT CASING # O-RING, FRONT HOUSING, FRONT BOLT, FRONT HOUSING, FROM HOUSING, F |        |     | (A, K, O                                | R U)                          | (C, M, C     | OR V)                       | (D, N,       | OR W)         |      |  |  |
| COMPONENTS  HOUSING, FROM DRIVEN MAGNEE CONTAINMENT CASING # O-RING, FRONT BOLT, FRONT HO PLUG, 1/8" NPT  FOC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TO MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  PRIVE MAGNET ASSEMBLY, 140TO BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  BOLT, MOTOR  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  BOLT, CASING BOLT, MOTOR  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR  OR METRIC FRAME COMPONENT  DRIVE MAGNET ASSEMBLY, 80 FR BOLT, CASING BOLT, MOTOR  DRIVE MAGNET ASSEMBLY, 90 FR BOLT MAGNET B | Q      | QTY | PART NUMBER                             | MATERIAL                      | PART NUMBER  | MATERIAL                    | PART NUMBER  | MATERIAL      | ITEM |  |  |
| COMPONENTS  HOUSING, FROM DRIVEN MAGNEE CONTAINMENT CASING # O-RING, FRONT BOLT, FRONT HO PLUG, 1/8" NPT  FOR MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TO MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR  PORMETRIC FRAME COMPONENT  OR METRIC FRAME COMPONENT  DRIVE MAGNET ASSEMBLY, 90 FR   | UPLING |     |   |                               |              |                             |              |               |      |  |  |
| COMMON PARTS PARTS  COMMON PARTS  ACASING # O-RING, FRONT HO PLUG, 1/8" NPT  FOR PARTS  BOLT, FRONT HO PLUG, 1/8" NPT  FOR PARTS  BOLT, MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  ACSEMBLY, 140TO MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, MOTOR  BOLT, CASING BOLT, CASING BOLT, CASING BOLT, MOTOR  BOLT, CASING BOLT, CASING BOLT, CASING BOLT, MOTOR  BOLT, CASING BOLT, MOTOR  ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  ADAPTOR, MOTOR BOLT, ADAPTOR  BOLT, CASING BOLT, MOTOR BOLT, ADAPTOR  BOLT, CASING BOLT, MOTOR  BOLT, CASING BOLT, MOTOR  BOLT, MOTOR  BOLT, CASING BOLT, MOTOR  BOLT, CASING BOLT, MOTOR  BOLT, MOTOR  BOLT, CASING BOLT, MOTOR  BOLT |        |     |   |                               |              |                             |              |               |      |  |  |
| COMMON PARTS PARTS  CONTAINMENT CASING # O-RING, FRONT HOPLUG, 1/8" NPT  FOR PROPOSE  FOR MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, CASING BOLT, MOTOR  ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  PRIVE MAGNET ASSEMBLY, 140TO MOTOR SPOOL BOLT, CASING BOLT, MOTOR  ASSEMBLY, 140TO BOLT, CASING BOLT, MOTOR  BOLT, CASING BOLT, MOTOR  ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR  BOLT, ADAPTOR  BOLT, ADAPTOR  ASSEMBLY, 80 FR MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR  BOLT, CASING BOLT, MOTOR  PORMETRIC FRAME COMPONENT  OR METRIC FRAME COMPONENT  BOLT, CASING BOLT, MOTOR  OR METRIC FRAME COMPONENT  OR METRIC FRAME COMPONENT  BOLT, MOTOR  OR METRIC FRAME COMPONENT  OR METRIC FRAME COMPONENT  OR METRIC FRAME COMPONENT  BOLT, MOTOR  OR METRIC FRAME COMPONENT  OR METRIC FRAME COM | ONT    | 1   | 40144                                   | 316 SS                        | 40145        | ALLOY C                     | 40148        | ALLOY 20      | 3    |  |  |
| COMMON PARTS PARTS  CASING # 0-RING, FRONT HO PLUG, 1/8" NPT  FOR TABLE COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, MOTOR POOL BOLT, CASING BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC BOLT, MOTOR POOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  BOLT, MOTOR SPOOL BOLT, CASING BOLT, MOTOR SPOOL BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, MOTOR SPOOL BOLT, CASING BOLT, MOTOR SPOOL BOLT, CASING BOLT, MOTOR POOL B |        | 1   | 49738                                   | 316 SS                        | 49739        | ALLOY C                     | 49740        | ALLOY 20      | 18   |  |  |
| COMMON PARTS  PARTS  CASING  # O-RING, FRONT HO PLUG, 1/8" NPT  FOR PARTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TO MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TO BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR BOLT, CASING BOLT, MOTOR ADAPTOR, MOTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR SPOOL BOLT, MOTOR SPOOL BOLT, CASING BOLT, MOTOR SPOOL BOLT, |        | 1   | 49672                                   | 316 SS                        | 49605        | ALLOY C                     | 49605        | ALLOY C       | 19   |  |  |
| # O-RING, FRONT HOPLUG, 1/8" NPT  56C FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI  MOTOR SPOOL BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC  MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC  MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, MOTOR ADAPTOR, MOTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR ADAPTOR, MOTOR BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR BOLT, CASING BOLT, MOTOR  90 METRIC FRAME COMPONENT  DRIVE MAGNET ASSEMBLY, 90 FR   |        | 1   | 49610                                   | ALUMINUM                      | 49610        | ALUMINUM                    | 49610        | ALUMINUM      | 20   |  |  |
| BOLT, FRONT HO PLUG, 1/8" NPT  56C FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC O MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC BOLT, CASING BOLT, MOTOR  ADAPTOR, MOTOR BOLT, CASING BOLT, MOTOR ADAPTOR, MOTOR BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR ADAPTOR, MOTOR BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR BOLT,  |        | 1   | W209729-TFE                             | TFE                           | W209729-TFE  | TFE                         | W209729-TFE  | TFE           | 28   |  |  |
| PLUG, 1/8" NPT  56C FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC O MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC BOLT, CASING BOLT, MOTOR ADAPTOR, MOTOR BOLT, CASING BOLT, MOTOR ADAPTOR, MOTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR ASSEMBLY, 80 FR MOTOR SPOOL BOLT, CASING BOLT, MOTOR  |        | 4   | W770198-188                             | 188 SS                        | W770198-188  | 188 SS                      | W770198-188  | 188 SS        | 26   |  |  |
| DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR ASSEMBLY, 140TC OMOTOR SPOOL BOLT, CASING BOLT, MOTOR BOLT, CASING BOLT, MOTOR ADAPTOR ADAPTOR, MOTOR BOLT, CASING BOLT, MOTOR ADAPTOR, MOTOR BOLT, ADAPTOR BOLT, ADAPTOR ADAPTOR, MOTOR BOLT, ADAPTOR BOLT, CASING BOLT, MOTOR BOLT, MOTOR BOLT, CASING BOLT, MOTOR BOLT, M |        | *2  | W772565-316                             | 316 SS                        | 52301        | ALLOY C                     | 52300        | ALLOY 20      | 27   |  |  |
| DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC OMOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR, MOT BOLT, ADAPTOR ASSEMBLY, 80 FR MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, CASING BOLT, MOTOR ASSEMBLY, 80 FR MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, MOTOR BOLT, CASING BOLT, MOTOR BOLT, CASING BOLT, MOTOR BOLT, CASING BOLT, MOTOR BOLT MAGNET ASSEMBLY, 90 FR  |        |     | *************************************** | 010 00                        | 01001        | 712201 0                    | 32333        | 7.220 . 20    |      |  |  |
| ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR, MOT BOLT, ADAPTOR ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, MOTOR PO METRIC FRAME COMPONENT ORIVE MAGNET ASSEMBLY, 90 FR DRIVE MAGNET ASSEMBLY, 90 FR   | т      |     |   |                               |              |                             |              |               |      |  |  |
| F MOTOR SPOOL BOLT, CASING BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC BOLT, CASING BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR, MOT BOLT, ADAPTOR ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, MOTOR PO METRIC FRAME COMPONENT DRIVE MAGNET ASSEMBLY, 90 FR   | · ·    | 1   | 49731                                   | STEEL                         | 49731        | STEEL                       | 49731        | STEEL         | 21   |  |  |
| BOLT, CASING BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC BOLT, CASING BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR, MOT BOLT, ADAPTOR ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, ADAPTOR ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, MOTOR ASSEMBLY, 80 FR MOTOR SPOOL BOLT, CASING BOLT, MOTOR PO METRIC FRAME COMPONENT ORIVE MAGNET ASSEMBLY, 90 FR  |        | 1   | 49627                                   | ALUMINUM                      | 49627        | ALUMINUM                    | 49627        | ALUMINUM      | 29   |  |  |
| BOLT, MOTOR  140TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 140TC  MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR, MOT BOLT, ADAPTOR ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, ADAPTOR DRIVE MAGNET ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, MOTOR ADAPTOR SPOOL BOLT, CASING BOLT, MOTOR BOLT, MOTOR BOLT, CASING BOLT, MOTOR BOLT |        | 4   | 16722                                   | STEEL                         | 16722        | STEEL                       | 16722        | STEEL         | 35   |  |  |
| DRIVE MAGNET ASSEMBLY, 140TC O MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR, MOT BOLT, ADAPTOR ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, ADAPTOR DRIVE MAGNET ASSEMBLY, 80 FR MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, MOTOR BOLT, CASING BOLT, MOTOR BOLT, |        | 4   | W770424-STL                             | STEEL                         | W770424-STL  | STEEL                       | W770424-STL  | STEEL         | 23   |  |  |
| DRIVE MAGNET ASSEMBLY, 140TO MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR DRIVE MAGNET ASSEMBLY, 80 FR MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, MOTOR DRIVE MAGNET ASSEMBLY, 80 FR MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, MOTOR PO METRIC FRAME COMPONENT DRIVE MAGNET ASSEMBLY, 90 FR  |        | - I | W770424 51E                             | SILLL                         | W770424 31L  | SILLL                       | W770424 31E  | SILLL         | 23   |  |  |
| ASSEMBLY, 140TO  MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR ADAPTOR ADAPTOR ADAPTOR BOMETRIC FRAME COMPONENT ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, MOTOR BOLT, CASING BOLT, MOTOR BOLT, CASING BOLT, MOTOR | т Г    |     |   |                               |              |                             |              |               |      |  |  |
| O MOTOR SPOOL BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR ADAPTOR ORIVE MAGNET ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, MOTOR ADAPTOR ORIVE MAGNET ASSEMBLY, 80 FR MOTOR SPOOL BOLT, CASING BOLT, MOTOR ORIVE MAGNET ASSEMBLY, MOTOR ORIVE MAGNET ASSEMBLY, 90 FR  |        | 1   | 49732                                   | STEEL                         | 49732        | STEEL                       | 49732        | STEEL         | 21   |  |  |
| BOLT, CASING BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR BOLT, ADAPTOR ADRIVE MAGNET ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, CASING BOLT, MOTOR BOLT, CASING BOLT, MOTOR PO METRIC FRAME COMPONENT DRIVE MAGNET ASSEMBLY, 90 FR  |        | 1   | 49627                                   | ALUMINUM                      | 49627        | ALUMINUM                    | 49627        | ALUMINUM      | 29   |  |  |
| BOLT, MOTOR  182/4 TC FRAME COMPONENTS  DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR DRIVE MAGNET ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, MOTOR ADAPTOR DRIVE MAGNET ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, MOTOR PO METRIC FRAME COMPONENT DRIVE MAGNET ASSEMBLY, 90 FR  |        | 4   | 16722                                   | STEEL                         | 16722        | STEEL                       | 16722        | STEEL         | 35   |  |  |
| DRIVE MAGNET  ASSEMBLY, 56C FI MOTOR SPOOL  R BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR BOLT, ADAPTOR ORIVE MAGNET ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, ADAPTOR DRIVE MAGNET ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, MOTOR PO METRIC FRAME COMPONENT DRIVE MAGNET ASSEMBLY, 90 FR ASSEMBLY, 90 FR   |        | 4   | W770424-STL                             | STEEL                         | W770424-STL  | STEEL                       | W770424-STL  | STEEL         | 23   |  |  |
| DRIVE MAGNET ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR ORIVE MAGNET ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, CASING BOLT, MOTOR ORIVE MAGNET ASSEMBLY, 80 FR BOLT, CASING BOLT, MOTOR ORIVE MAGNET ASSEMBLY, 90 FR   |        | 4   | W770424-31L                             | SIEEL                         | W770424-31L  | SIEEL                       | W770424-31L  | SIEEL         | 23   |  |  |
| ASSEMBLY, 56C FI MOTOR SPOOL R BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR ORIVE MAGNET ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, CASING BOLT, MOTOR ORIVE MAGNET ASSEMBLY, 80 FR ASSEMBLY, 90 FR   |        |     |   |                               |              |                             |              |               |      |  |  |
| MOTOR SPOOL R BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR  80 METRIC FRAME COMPONENT ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, MOTOR 90 METRIC FRAME COMPONENT DRIVE MAGNET ASSEMBLY, 90 FR   |        | 1   | NG200057-STL                            | STEEL                         | NG200057-STL | STEEL                       | NG200057-STL | STEEL         | 21   |  |  |
| R BOLT, CASING BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR  80 METRIC FRAME COMPONENT ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, MOTOR  90 METRIC FRAME COMPONENT ASSEMBLY, 90 FR   |        | 4   | 40627                                   | A 1 1 1 1 A 1 A 1 A 1 A 1 A 1 | 40627        | A I I I I A I A I I I I A A | 40627        | 0111041011104 | 20   |  |  |
| BOLT, MOTOR ADAPTOR, MOT BOLT, ADAPTOR BO METRIC FRAME COMPONENT ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, MOTOR PO METRIC FRAME COMPONENT ASSEMBLY, 90 FR ASSEMBLY, 90 FR  |        | 1   | 49627                                   | ALUMINUM                      | 49627        | ALUMINUM                    | 49627        | ALUMINUM      | 29   |  |  |
| ADAPTOR, MOT BOLT, ADAPTOR BO METRIC FRAME COMPONENT DRIVE MAGNET ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, MOTOR 90 METRIC FRAME COMPONENT DRIVE MAGNET ASSEMBLY, 90 FR  |        | 4   | 16722                                   | STEEL                         | 16722        | STEEL                       | 16722        | STEEL         | 35   |  |  |
| BOLT, ADAPTOR  80 METRIC FRAME COMPONENT  DRIVE MAGNET  ASSEMBLY, 80 FR  MOTOR SPOOL  BOLT, CASING  BOLT, MOTOR  90 METRIC FRAME COMPONENT  DRIVE MAGNET  ASSEMBLY, 90 FR  |        | 1   | W770424-STL                             | STEEL                         | W770424-STL  | STEEL                       | W770424-STL  | STEEL         | 23   |  |  |
| BO METRIC FRAME COMPONENT  DRIVE MAGNET  ASSEMBLY, 80 FR  MOTOR SPOOL  BOLT, CASING  BOLT, MOTOR  PO METRIC FRAME COMPONENT  DRIVE MAGNET  ASSEMBLY, 90 FR   |        |     | NG110018-ALU                            | ALUMINUM                      | NG110018-ALU | ALUMINUM                    | NG110018-ALU | ALUMINUM      |      |  |  |
| DRIVE MAGNET ASSEMBLY, 80 FR K MOTOR SPOOL BOLT, CASING BOLT, MOTOR 90 METRIC FRAME COMPONENT DRIVE MAGNET ASSEMBLY, 90 FR   |        | 4   | NP999006-STL                            | STEEL                         | NP999006-STL | STEEL                       | NP999006-STL | STEEL         |      |  |  |
| ASSEMBLY, 80 FR  MOTOR SPOOL  BOLT, CASING  BOLT, MOTOR  90 METRIC FRAME COMPONENT  DRIVE MAGNET  ASSEMBLY, 90 FR  |        |     |   |                               |              |                             |              | 1             |      |  |  |
| K MOTOR SPOOL BOLT, CASING BOLT, MOTOR 90 METRIC FRAME COMPONENT DRIVE MAGNET ASSEMBLY, 90 FR  | · ·    | 1   | 49733                                   | STEEL                         | 49733        | STEEL                       | 49733        | STEEL         | 21   |  |  |
| BOLT, CASING BOLT, MOTOR 90 METRIC FRAME COMPONENT DRIVE MAGNET ASSEMBLY, 90 FR  | R      |     |   |                               |              |                             |              | -             |      |  |  |
| BOLT, MOTOR  90 METRIC FRAME COMPONENT  DRIVE MAGNET  ASSEMBLY, 90 FR  |        | 1   | 49727                                   | ALUMINUM                      | 49727        | ALUMINUM                    | 49727        | ALUMINUM      | 29   |  |  |
| 90 METRIC FRAME COMPONENT<br>DRIVE MAGNET<br>ASSEMBLY, 90 FR   |        | 4   | 16722                                   | STEEL                         | 16722        | STEEL                       | 16722        | STEEL         | 35   |  |  |
| DRIVE MAGNET<br>ASSEMBLY, 90 FR  |        | 4   | NP990415-STL                            | STEEL                         | NP990415-STL | STEEL                       | NP990415-STL | STEEL         | 23   |  |  |
| ASSEMBLY, 90 FR  | NTS    |     |   |                               |              |                             |              |               |      |  |  |
| •  | T .    | 1   | 10724                                   | STEEL                         | 10721        | STEEL                       | 10721        | CTEEL         | 21   |  |  |
|  | R      | 1   | 43/34                                   | SIEEL                         | 47/34        | SIEEL                       | 47/34        | SIEEL         |      |  |  |
| L MOTOR SPOOL  | L      | 1   | 49728                                   | ALUMINUM                      | 49728        | ALUMINUM                    | 49728        | ALUMINUM      | 29   |  |  |
| BOLT, CASING   | 1 .    | 4   | 16722                                   | STEEL                         | 16722        | STEEL                       | 16722        | STEEL         | 35   |  |  |
| BOLT, MOTOR  | 1 .    | 4   | NP990478-STL                            | STEEL                         | NP990478-STL | STEEL                       | NP990478-STL | STEEL         | 23   |  |  |
| BOLT, CASING   | R<br>L | 4   | 16722                                   | STEEL                         | 16722        | STEEL                       | 16722        | STEEL         | 35   |  |  |

\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M
# DENOTES RECOMMENDED
SPARE PART







ITEM CLASS GMH8 = IH
PRODUCT LINE = H / ISOCHEM

## ISOCHEM GMH8 SERIES PUMP CONSOLIDATED B / M

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|        |        |       |  | 200  |                          |                      | STANDARD PUN | MP MATERIAL |              |          | 1    |
|--------|--------|-------|--|------|--------------------------|----------------------|--------------|-------------|--------------|----------|------|
|        |        |       |  |      | 316                      | SS                   | ALLO         | Y C         | ALLO         | / 20     | 7    |
|        |        |       |  |      | (A, K, OR U)             |                      | (C, M, OR V) |             | (D, N, OR W) |          |      |
|        |        |       | DESCRIPTION  | QTY  | PART NUMBER              | MATERIAL             | PART NUMBER  | MATERIAL    | PART NUMBER  | MATERIAL | ITEM |
| POSITI | ION 3  |       | STANDARD PUMP - NON-VARIBLE COMPONENT                                  | · s  |                          |                      |              |             | -            |          |      |
|        |        |       | HOUSING, FRONT   | 1    | 49678                    | 316 SS               | 49679        | ALLOY C     | 49680        | ALLOY 20 | 1    |
|        |        |       | HOUSING, CENTER FNPT   | 1    | 40052                    | 316 SS               | 40053        | ALLOY C     | 40054        | ALLOY 20 | 2    |
|        |        |       | HOUSING, CENTER FBSPT  | 1    | 40064                    | 316 SS               | 40065        | ALLOY C     | 40066        | ALLOY 20 | 2    |
|        |        |       | HOUSING, CENTER FLANGED  |      | NG040007-316             | 316 SS               | NG040007-HC0 | ALLOY C     | NG040007-020 | ALLOY 20 | 2    |
|        |        |       | HOUSING, REAR  | 1    | 40247                    | 316 SS               | 40248        | ALLOY C     | 40249        | ALLOY 20 | 3    |
|        |        |       | # RING, RETAINING 3/4"   | 4-6  | 46714                    | 316 SS               | 46711        | ALLOY C     | 46711        | ALLOY C  | 10   |
|        |        |       | # RING, RETAINING 5/8"   | 0-2  | Y9901400-316             | 316 SS               | Y9901400-HC0 | ALLOY C     | Y9901400-HC0 | ALLOY C  | 11   |
|        |        |       | # KEY, METAL DRIVE GEAR  | *2   | 41937                    | 316 SS               | 41903        | ALLOY C     | 41905        | ALLOY 20 | 8    |
|        |        |       | # KEY, MTL / CBN IDLER GEAR  |      | 41937                    | 316 SS               | 41903        | ALLOY C     | 41905        | ALLOY 20 | 9    |
|        |        |       | # KEY, PLASTIC IDLER GEAR  | *2   | 41938                    | 316 SS               | 41904        | ALLOY C     | 41906        | ALLOY 20 | 9    |
|        |        |       | # KEY, MAGNETIC CPLG - DRIVE   | *2   | 41937                    | 316 SS               | 41903        | ALLOY C     | 41905        | ALLOY 20 | 21   |
|        |        |       | # PIN, BEARING LOCK  | 4    | 41811                    | TFE                  | 41811        | TFE         | 41811        | TFE      | 14   |
|        |        |       | # BUSHING, RECIRCULATION (.000)  | 1    | 99618-00                 | TFE                  | 99618-00     | TFE         | 99618-00     | TFE      | 23   |
|        |        |       | # O RING, CENTER HOUSING   | 2    | 41101                    | TFE                  | 41101        | TFE         | 41101        | TFE      | 16   |
|        |        |       | PIN, HOUSING   | 4    | 40801                    | 316 SS               | 40801        | 316 SS      | 40801        | 316 SS   | 17   |
|        |        |       | BOLT, HOUSING  | 4    | 62006                    | 188 SS               | 62006        | 188 SS      | 62006        | 188 SS   | 18   |
|        |        |       | NUT, HOUSING   | 4    | 62101                    | 188 SS               | 62101        | 188 SS      | 62101        | 188 SS   | 19   |
|        |        |       | PLUG, 1 / 8" NPT   | *2   | W772565-316              | 316 SS               | 52301        | ALLOY C     | 52300        | ALLOY 20 | 62   |
|        |        |       | NAMEPLATE  | 1    | 41210                    | 188 SS               | 41210        | 188 SS      | 41210        | 188 SS   |      |
| POSITI | ION 9, | 10, / | AND 11 OPTIONS - DELETE CORRESPONDING STAN HOUSING, CENTER - VENT FNPT | DARD | PUMP COMPONEN<br>40052-2 | T FROM B/M<br>316 SS | 40053-2      | ALLOY C     | 40054-2      | ALLOY 20 | 2    |
|        |        | 525   | HOUSING, CENTER - VENT FBSPT   | 1    | 40064-2                  | 316 SS               | 40065-2      | ALLOY C     | 40066-2      | ALLOY 20 | 2    |
|        |        | V     | HOUSING, CENTER - VENT FLANGED   |      | NG040010-316             | 316 SS               | NG040010-HC0 | ALLOY C     | NG040010-020 | ALLOY 20 | 2    |
|        |        |       | PLUG, 1/8" NPT   | *1   | W772565-316              | 316 SS               | 52301        | ALLOY C     | 52300        | ALLOY 20 | 62   |
| Г      | ì      | İ.,   | HOUSING, REAR -BRG FLUSH   | 1    | 40247-2                  | 316 SS               | 40248-2      | ALLOY C     | 40249-2      | ALLOY 20 | 3    |
|        |        | Α     | PLUG, 1/8" NPT   | *2   | W772565-316              | 316 SS               | 52301        | ALLOY C     | 52300        | ALLOY 20 | 62   |
|        | С      |       | # PIN, BEARING LOCK  | 4    | 41812                    | 316 SS               | 41813        | ALLOY C     | 41814        | ALLOY 20 | 14   |
|        |        | В     | # O RING, CENTER HOUSING   | 2    | 41107                    | SS / PFA             | 41107        | SS / PFA    | 41107        | SS / PFA | 16   |
|        |        | 10.00 | # O RING, CONTANMENT CAN   | 1-2  | W210422-002              | SS / PFA             | W210422-002  | SS / PFA    | W210422-002  | SS / PFA | 25   |
|        |        |       | # BEARING, SLOTTED 3/4"  | 0-4  | 40442                    | CARBON               | 40442        | CARBON      | 40442        | CARBON   | 12   |
| 1      | )      |       | # BEARING, SLOTTED 5/8"  | 0-2  | 40440                    | CARBON               | 40440        | CARBON      | 40440        | CARBON   | 13   |
| _      |        |       | HOUSING, REAR -RECIRCULATION   | 1    | 40247-3                  | 316 SS               | 40248-3      | ALLOY C     | 40249-3      | ALLOY 20 | 3    |
|        |        |       | # BUSHING, RECIRCULATION (.060)  | 2    | 99618-06                 | TRE                  | 99618-06     | TFE         | 99618-06     | TFE      | 23   |
|        |        |       | # WEAR PLATE, RECIRCULATION  |      | 40527                    | CARBON               | 40527        | CARBON      | 40527        | CARBON   | 15   |
|        |        | R     | # WEAR PLATE, RECIRCULATION  |      | 40529                    | TFE (GF)             | 40529        | TFE (GF)    | 40529        | TFE (GF) | 15   |
|        |        |       | # WEAR PLATE, RECIRCULATION  | 4    | 40528                    | CERAMIC              | 40528        | CERAMIC     | 40528        | CERAMIC  | 15   |
|        |        |       | # WEAR PLATE, RECIRCULATION  | 1    | 40530                    | PEEK                 | 40530        | PEEK        | 40530        | PEEK     | 15   |
|        |        | W     | DRIVEN MAGNET ASSY (WELDED)  | 1    | 49715                    | 316 SS               | 49716        | ALLOY C     | 49717        | ALLOY 20 | 24   |

<sup>\*</sup>COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M  $\,$ 

<sup>#</sup> DENOTES RECOMMENDED SPARE PART

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|--------------|---|--------|-----|----------------|---------------------|---------------|-------------|-------------|--------------------|--------|
|              |   |        |     |                |                     | STANDARD PU   | MP MATERIAL |             |                    | 7      |
|              |   |        |     | 316            | SS                  | ALLO          | DY C        | ALLO        | Y 20               | 1      |
|              |   |        |     | (A, K,         | OR U)               | (C, M,        | OR V)       | (D, N,      | OR W)              |        |
|              | DESCRIPTION                               |        | QTY | PART NUMBER    | MATERIAL            | PART NUMBER   | MATERIAL    | PART NUMBER | MATERIAL           | ITEM   |
| POSITION 4 8 | § 5 DRIVE AND IDLER GEAR MATERIAL         |        |     |                |                     |               |             |             |                    |        |
| Α            | # GEAR, DRIVE / IDLER                     | 3/4"   | 1-2 | 40730          | 316 SS              |               |             |             |                    | 6, 7   |
| С            | # GEAR, DRIVE / IDLER                     | 3/4"   | 1-2 | 40605          | ALLOY C             | 40605         | ALLOY C     | 40605       | ALLOY C            | 6, 7   |
| К            | # GEAR, IDLER                             | 5/8"   |     | 40606          | CARBON              | 40606         | CARBON      | 40606       | CARBON             | 7      |
| Ŧ            | # GEAR, IDLER                             | 5/8"   | 0-1 | 40608          | TFE (GF)            | 40608         | TFE (GF)    | 40608       | TFE (GF)           | 7      |
| E            | # GEAR, IDLER                             | 5/8"   |     | 40609          | PEEK                | 40609         | PEEK        | 40609       | PEEK               | 7      |
| DOCUTION C   | W510 01 175 141 750111                    |        |     |                |                     |               |             |             |                    |        |
| POSITION 6   | #WEAR PLATE MATERIAL #WEAR PLATE, SLOTTED |        |     | 40511          | CARBON              | 40511         | CARBON      | 40511       | CARBON             | 15     |
| T            |   |        | -   | 40513          |                     | 40513         |             | 40513       | 110101101110101010 | 15     |
| Z            | # WEAR PLATE, SLOTTED                     |        | 4   |                | TFE (GF)<br>CERAMIC | 40525         | TFE (GF)    | 40525       | TFE (GF)           | 15     |
| E E          | # WEAR PLATE, SLOTTED                     |        | 4   | 40525<br>40526 | PEEK                | 40525         | CERAMIC     |             | CERAMIC            | 15     |
| E            | # WEAR PLATE, SLOTTED                     |        |     | 40526          | PEEK                | 40526         | PEEK        | 40526       | PEEK               | 15     |
| POSITION 7   | SHAFT AND BEARING MATERIAL                |        |     |                |                     |               |             |             |                    |        |
| STANDARD C   | CONSTRUCTION                              |        |     |                |                     |               |             |             |                    |        |
|              | # SHAFT, DRIVE                            |        | 1   | 41370          | 316 SS              | 41371         | ALLOY C     | 41372       | ALLOY 20           | 4      |
|              | # SHAFT, IDLER                            | 5/8"   | 1   | 41337          | 316 SS              | 41338         | ALLOY C     | 41339       | ALLOY 20           | 5      |
| K            | # SHAFT, IDLER METAL GEAR                 | 3/4"   | 1 + | 41342          | 316 SS              | 41343         | ALLOY C     | 41344       | ALLOY 20           | 5      |
|              | # BEARING, DRIVE / IDLER SHAFT            | 3/4"   | 2-4 | 40436          | CARBON              | 40436         | CARBON      | 40436       | CARBON             | 12     |
|              | # BEARING, IDLER SHAFT                    | 5/8"   | 0-2 | 40432          | CARBON              | 40432         | CARBON      | 40432       | CARBON             | 13     |
|              | # SHAFT, DRIVE                            |        | 1   | 41370          | 316 SS              | 41371         | ALLOY C     | 41372       | ALLOY 20           | 4      |
|              | # SHAFT, IDLER                            | 5/8"   | 1   | 41337          | 316 SS              | 41338         | ALLOY C     | 41339       | ALLOY 20           | 5      |
| Ľ            | # SHAFT, IDLER METAL GEAR                 | 3/4"   | 7 1 | 41342          | 316 SS              | 41343         | ALLOY C     | 41344       | ALLOY 20           | 5      |
|              | # BEARING, DRIVE / IDLER SHAFT            | 3/4"   | 2-4 | 40437          | EWCBN               | 40437         | EWCBN       | 40437       | EWCBN              | 12     |
|              | # BEARING, IDLER SHAFT                    | 5/8"   | 0-2 | 40433          | EWCBN               | 40433         | EWCBN       | 40433       | EWCBN              | 13     |
|              | # SHAFT, DRIVE                            |        | 1   | 41370          | 316 SS              | 41371         | ALLOY C     | 41372       | ALLOY 20           | 4      |
|              | # SHAFT, IDLER                            | 5/8"   | ī   | 41337          | 316 SS              | 41338         | ALLOY C     | 41339       | ALLOY 20           | 5      |
| т            | # SHAFT, IDLER METAL GEAR                 | 3/4"   | 7 + | 41342          | 316 SS              | 41343         | ALLOY C     | 41344       | ALLOY 20           | 5      |
|              | # BEARING, DRIVE / IDLER SHAFT            | 3/4"   | 2-4 | 40438          | TFE (GF)            | 40438         | TFE (GF)    | 40438       | TFE (GF)           | 12     |
|              | # BEARING, IDLER SHAFT                    | 5/8"   | 0-2 | 40434          | TFE (GF)            | 40434         | TFE (GF)    | 40434       | TFE (GF)           | 13     |
| EVTENDED /   | WEAR - BOTH SHAFTS                        |        |     |                |                     |               |             |             |                    |        |
| -XIENDED/    | # SHAFT, DRIVE                            |        | 1   | 41396          | CW / 316 SS         | 41397         | CW / ALY C  | 41398       | CW / ALY20         | 4      |
|              | # SHAFT, IDLER                            | 5/8"   |     | 41354          | CW / 316 SS         | 41355         | CW / ALY C  | 41356       | CW / ALY20         | 5      |
| C            | # SHAFT, IDLER METAL GEAR                 | 3/4"   | 1   | 41365          | CW / 316 SS         | 41366         | CW / ALY C  | 41367       | CW / ALY20         | 5      |
|              | # BEARING, DRIVE SHAFT                    | 3/4"   | 2-4 | 40437          | EWCBN               | 40437         | EWCBN       | 40437       | EWCBN              | 12, 13 |
|              | # BEARING, IDLER SHAFT                    | 5/8"   | 0-2 | 40433          | EWCBN               | 40433         | EWCBN       | 40433       | EWCBN              | 13     |
|              | V   |        |     |                |                     |               |             |             |                    |        |
| CORROSION    | / WEAR ("CW") - BOTH SHAFTS               |        | 1 2 |                | 01111010C           |               |             |             | au ( 1 ) v = -     | T .    |
|              | # SHAFT, DRIVE                            | = (al' | 1   | 41396          | CW / 316 SS         | 41397         | CW / ALY C  | 41398       | CW / ALY20         | 4      |
| -            | # SHAFT, IDLER                            | 5/8"   | 1   | 41354          | CW / 316 SS         | 41355         | CW / ALY C  | 41356       | CW / ALY20         | 5      |
| В            | # SHAFT, IDLER METAL GEAR                 | 3/4"   | -   | 41365          | CW / 316 SS         | 41366         | CW / ALY C  | 41367       | CW / ALY20         | 5      |
|              | # BEARING, DRIVE / IDLER SHAFT            | 3/4"   | 2-4 | 40439          | SICBD               | 40439         | SICBD       | 40439       | SICBD              | 12, 13 |
|              | # BEARING, IDLER SHAFT                    | 5/8"   | 0-2 | 40435          | SICBD               | 40435         | SICBD       | 40435       | SICBD              | 13     |

\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B/M # DENOTES RECOMMENDED SPARE PART

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|----------------|--|-------|--------------|----------|----------------|----------|---|--------------|---------|
|                |  |       |              |          | MP MATERIAL    |          |   | 1            |         |
|                |  |       | 316          | SS       | ALLO           | DY C     | ALLO                                    | Y 20         | 1       |
|                |  |       | (A, K,       | OR U)    | (C, M,         | OR V)    | (D, N,                                  | OR W)        |         |
|                | DESCRIPTION                              | QTY   | PART NUMBER  | MATERIAL | PART NUMBER    | MATERIAL | PART NUMBER                             | MATERIAL     | ITEM    |
| POSITION 8     | MAGNETIC COUPLING COMPONENTS             |       |              |          |                |          |   |              |         |
|                | DRIVEN MAGNET ASSY                       | 1     | 49697        | 316 SS   | 49707          | ALLOY C  | 49708                                   | ALLOY 20     | 24      |
|                | BOLT, FRONT HOUSING / ADAPTOR            | 8     | W770407-188  | 188 SS   | W770407-188    | 188 SS   | W770407-188                             | 188 SS       | 22      |
|                | # O RING, CONTAINMENT CAN                | *1    | W210422-TFE  | TFE      | W210422-TFE    | TFE      | W210422-TFE                             | TFE          | 25      |
| COMMON         | SCREW, SET                               | 2     | W771004-030  | STEEL    | W771004-030    | STEEL    | W771004-030                             | STEEL        | 35      |
| PARTS          | PIN, DRIVE MAGNET / HOLDER               | 2     | W771209-003  | STEEL    | W771209-003    | STEEL    | W771209-003                             | STEEL        | 34      |
|                | SCREW, SKHD DRIVE MAGNET / HOLDER        | 4     | W770027-188  | 188 SS   | W770027-188    | 188 SS   | W770027-188                             | 188 SS       | 33      |
|                | CAN, CONTAINMENT                         | Ĭ     | 49674        | ALLOY C  | 49674          | ALLOY C  | 49674                                   | ALLOY C      | 26      |
|                | SCREW, CONTAINMENT CAN RING              | 8     | W770021-188  | 188 SS   | W770021-188    | 188 SS   | W770021-188                             | 188 SS       | 29      |
| ( ===          |  |       |              | y.       |                |          |   |              |         |
| 143 / 51C, 184 | C FRAME COMPONENTS  HOLDER, DRIVE MAGNET | 1     | 49705        | STEEL    | 49705          | STEEL    | 49705                                   | STEEL        | 30      |
| COMMON         | ADAPTOR, MOTOR                           | 1     | Y1100700-ALU | ALUMINUM | Y1100700-ALU   | ALUMINUM | Y1100700-ALU                            | ALUMINUM     | 36      |
| PARTS          | BOLT, MOTOR                              | 4     | W770425-188  | 188 SS   | W770425-188    | 188 SS   | W770425-188                             | 188 SS       | 41      |
| SINGLE CONTA   | NINMENT CAN COMPONENTS                   | 7     | W770423-186  | 100 33   | W110425-166    | 100 33   | VV770425-100                            | 100 33       | 77      |
|                | DRIVE MAGNET ASSY                        | 1     | 49702        | STEEL    | 49702          | STEEL    | 49702                                   | STEEL        | 31      |
| 0              | RING, CONTAINMENT CAN                    | 1     | 49719        | 316 SS   | 49719          | 316 SS   | 49719                                   | 316 SS       | 28      |
| DOUBLE CONT    | AINMENT CAN COMPONENTS                   |       |              |          |                |          | •                                       |              | •       |
|                | DRIVE MAGNET ASSY                        | 1     | 49704        | STEEL    | 49704          | STEEL    | 49704                                   | STEEL        | 32      |
| D              | CAN ASSY, CONTAINMENT                    | 1     | 49698        | 316 SS   | 49699          | ALLOY C  | 49700                                   | ALLOY 20     | 27      |
| U              | # O RING, CONTAINMENT CAN                | *1    | W210422-TFE  | TFE      | W210422-TFE    | TFE      | W210422-TFE                             | TFE          | 25      |
|                | NIPPLE, 1/8" NPT X 2.00                  | 2     | W773965-208  | 316 SS   | W773965-235    | ALLOY C  | W773965-145                             | ALLOY 20     | 66      |
| 400 50 1145 06 |  |       |              |          |                |          |   |              |         |
| 100 FRAME CO   | HOLDER, DRIVE MAGNET                     | 1     | 49718        | STEEL    | 49718          | STEEL    | 49718                                   | STEEL        | 30      |
| COMMON         | ADAPTOR, MOTOR                           | 1     | Y1101000-ALU | ALUMINUM | Y1101000-ALU   | ALUMINUM | Y1101000-ALU                            | ALUMINUM     | 36      |
| PARTS          | BOLT, MOTOR (METRIC)                     | 4     | W770533-188  | 188 SS   | W770533-188    | 188 SS   | W770533-188                             | 188 SS       | 41      |
| SINGLE CONTA   | AINMENT CAN COMPONENTS                   | 0.000 |              |          |                |          |   |              | 1000-00 |
| _              | DRIVE MAGNET ASSY                        | 1     | 49702        | STEEL    | 49702          | STEEL    | 49702                                   | STEEL        | 31      |
| Р              | RING, CONTAINMENT CAN                    | 1     | 49719        | 316 SS   | 49719          | 316 SS   | 49719                                   | 316 SS       | 28      |
| DOUBLE CONT    | TAINMENT CAN COMPONENTS                  | 1000  |              |          | 500 cm/s/80/80 |          | 1 1000000000000000000000000000000000000 |              |         |
|                | DRIVE MAGNET ASSY                        | 1     | 49704        | STEEL    | 49704          | STEEL    | 49704                                   | STEEL        | 32      |
| 92             | CAN ASSY, CONTAINMENT                    | 1     | 49698        | 316 SS   | 49699          | ALLOY C  | 49700                                   | ALLOY 20     | 27      |
| Q              | # O RING, CONTAINMENT CAN                | *1    | W210422-TFE  | TFE      | W210422-TFE    | TFE      | W210422-TFE                             | TFE          | 25      |
|                | NIPPLE, 1/8" NPT X 2.00                  | 2     | W773965-208  | 316 SS   | W773965-235    | ALLOY C  | W773965-145                             | ALLOY 20     | 66      |

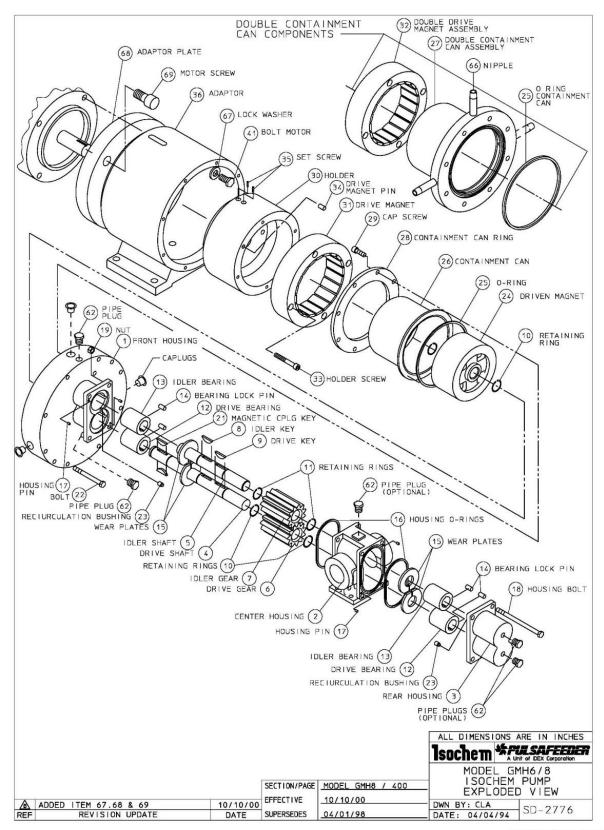
<sup>\*</sup>COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

#### **ISOCHEM GMH8 SERIES PUMP** CONSOLIDATED B / M

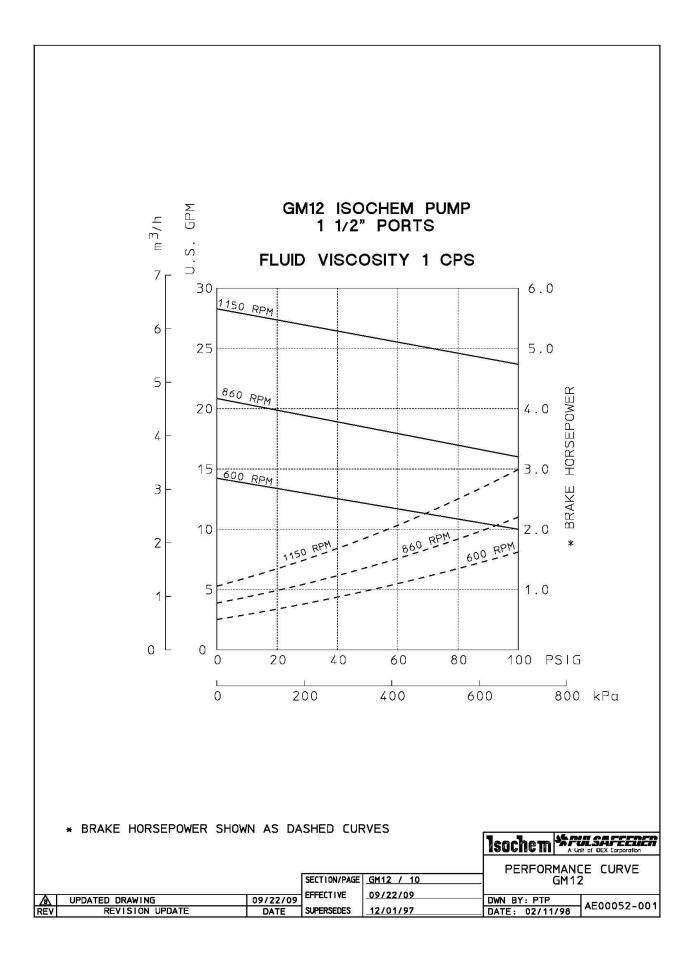
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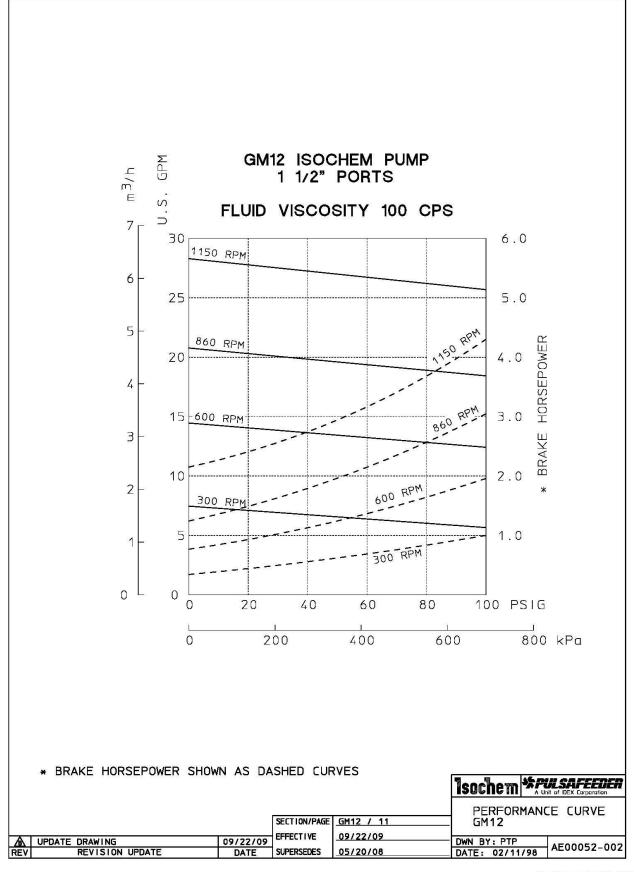
|               |  | Ì   |                 |                          | STANDARD PU    | MP MATERIAL                             |                          |                                       | 1    |
|---------------|--|-----|-----------------|--------------------------|----------------|---|--------------------------|---------------------------------------|------|
|               |  |     | 316<br>(A, K, G |                          | ALLO<br>(C, M, |   | ALLOY 20<br>(D, N, OR W) |                                       | 1    |
|               | DESCRIPTION                                    | QTY | PART NUMBER     | MATERIAL                 | PART NUMBER    | MATERIAL                                | PART NUMBER              | MATERIAL                              | ITEM |
| OSITION 8     | MAGNETIC COUPLING COMPONENTS                   |     |                 | 503073346079407140750400 |                | acceptacy to the tradition of           |                          | and the production to add in the case |      |
| Comores       | DRIVEN MAGNET ASSY                             | 1   | 49697           | 316 SS                   | 49707          | ALLOY C                                 | 49708                    | ALLOY 20                              | 24   |
|               | BOLT, FRONT HOUSING / ADAPTOR                  | 8   | W770407-188     | 188 SS                   | W770407-188    | 188 SS                                  | W770407-188              | 188 55                                | 22   |
|               | # O RING, CONTAINMENT CAN                      | 1   | W210422-TFE     | TFE                      | W210422-TFE    | TFE                                     | W210422-TFE              | TFE                                   | 25   |
| COMMON        | PIN, DRIVE MAGNET / HOLDER                     | 2   | W771209-003     | STEEL                    | W771209-003    | STEEL                                   | W771209-003              | STEEL                                 | 34   |
| PARTS         | SCREW, SKHD DRIVE MAGNET / HOLDER              | 4   | W770027-188     | 188 SS                   | W770027-188    | 188 SS                                  | W770027-188              | 188 SS                                | 33   |
|               | CAN, CONTAINMENT                               | 1   | 49674           | ALLOY C                  | 49674          | ALLOY C                                 | 49674                    | ALLOY C                               | 26   |
|               | SCREW, CONTAINMENT CAN RING                    | 8   | W770021-188     | 188 SS                   | W770021-188    | 188 SS                                  | W770021-188              | 188 SS                                | 29   |
|               |  |     |                 |                          |                | 75725                                   |                          |                                       |      |
| .82 / 4TC FRA | ME COMPONENTS                                  |     |                 |                          |                |   |                          |                                       |      |
|               | HOLDER, DRIVE MAGNET                           | 1   | 49757           | IRON                     | 49757          | IRON                                    | 49757                    | IRON                                  | 30   |
|               | ADAPTOR, MOTOR                                 | 1   | Y1100700-ALU    | ALUMINUM                 | Y1100700-ALU   | ALUMINUM                                | Y1100700-ALU             | ALUMINUM                              | 36   |
| COMMON        | SCREW, MOTOR                                   | 4   | W770580-STL     | STEEL                    | W770580-STL    | STEEL                                   | W770580-STL              | STEEL                                 | 69   |
| PARTS         | ADAPTOR, PLATE                                 | 1   | Y1101600-STL    | STEEL                    | Y1101600-STL   | STEEL                                   | Y1101600-STL             | STEEL                                 | 68   |
| Mills         | BOLT, ADAPTOR PLATE                            | 4   | W770425-188     | 188 SS                   | W770425-188    | 188 SS                                  | W770425-188              | 188 SS                                | 41   |
|               | WASHER, LOCK                                   | 4   | W771108-188     | 188 SS                   | W771108-188    | 188 SS                                  | W771108-188              | 188 SS                                | 67   |
|               | SCREW, SET                                     | 2   | W771004-030     | STEEL                    | W771004-030    | STEEL                                   | W771004-030              | STEEL                                 | 35   |
| INGLE CONTA   | AINMENT CAN COMPONENTS                         | *** |                 |                          |                |   |                          |                                       |      |
| R             | DRIVE MAGNET ASSY                              | 1   | 49702           | STEEL                    | 49702          | STEEL                                   | 49702                    | STEEL                                 | 31   |
| 13            | RING, CONTAINMENT CAN                          | 1   | 49719           | 316 SS                   | 49719          | 316 SS                                  | 49719                    | 316 SS                                | 28   |
| OUBLE CONT    | TAINMENT CAN COMPONENTS                        |     |                 |                          |                |   |                          |                                       |      |
|               | DRIVE MAGNET ASSY                              | 1   | 49704           | STEEL                    | 49704          | STEEL                                   | 49704                    | STEEL                                 | 32   |
| т             | CAN ASSY, CONTAINMENT                          | 1   | 49698           | 316 SS                   | 49699          | ALLOY C                                 | 49700                    | ALLOY 20                              | 27   |
|               | # O RING, CONTAINMENT CAN                      | *1  | W210422-TFE     | TFE                      | W210422-TFE    | TFE                                     | W210422-TFE              | TFE                                   | 25   |
|               | NIPPLE, 1/8" NPT X 2.00                        | 2   | W773965-208     | 316 SS                   | W773965-235    | ALLOY C                                 | W773965-145              | ALLOY 20                              | 66   |
|               |  |     |                 |                          |                |   |                          |                                       |      |
| 13 / 5TC FRA  | ME COMPONENTS                                  |     | 40750           | IDON                     | 10750          | IDON                                    | 40750                    | IDON                                  | T 20 |
|               | HOLDER, DRIVE MAGNET                           | 1   | 49758           | IRON                     | 49758          | IRON                                    | 49758                    | IRON                                  | 30   |
|               | ADAPTOR, MOTOR                                 | 1   | Y1100700-ALU    | ALUMINUM                 | Y1100700-ALU   | ALUMINUM                                | Y1100700-ALU             | ALUMINUM                              | 36   |
| COMMON        | SCREW, MOTOR                                   | 4   | W770068-188     | 188 SS                   | W770068-188    | 188 SS                                  | W770068-188              | 188 SS                                | 69   |
| PARTS         | ADAPTOR, PLATE                                 | 1   | Y1101700-STL    | STEEL                    | Y1101700-STL   | STEEL                                   | Y1101700-STL             | STEEL                                 | 68   |
|               | BOLT, ADAPTOR PLATE                            | 4   | W770426-188     | 188 SS                   | W770426-188    | 188 SS                                  | W770426-188              | 188 SS                                | 41   |
| INCLE CONT    | SCREW, SET AINMENT CAN COMPONENTS              | 2   | W771004-046     | STEEL                    | W771004-046    | STEEL                                   | W771004-046              | STEEL                                 | 35   |
| INGLE CONTA   | DRIVE MAGNET ASSY                              | 1 1 | 49702           | STEEL                    | 49702          | STEEL                                   | 49702                    | STEEL                                 | 31   |
| W             | **************************************         | 1   | 49702           | 316 SS                   | 49702          | 316 SS                                  | 49702                    | 316 SS                                | 28   |
| OUDIE COM     | RING, CONTAINMENT CAN  TAINMENT CAN COMPONENTS | 1 1 | 49/19           | 210.22                   | 49/19          | 210.22                                  | 49/19                    | 210.22                                | 28   |
| OUBLE CON     | DRIVE MAGNET ASSY                              | 1   | 49704           | STEEL                    | 49704          | STEEL                                   | 49704                    | STEEL                                 | 32   |
|               |  | 1   | 49704           | 316 SS                   | 49704          | ALLOY C                                 | 49704                    | ALLOY 20                              | 27   |
| Υ             | CAN ASSY, CONTAINMENT                          | *1  |                 |                          |                | //www.iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii |                          | TFE                                   |      |
|               | # O RING, CONTAINMENT CAN                      |     | W210422-TFE     | TFE                      | W210422-TFE    | TFE                                     | W210422-TFE              | - 107 T                               | 25   |
|               | NIPPLE, 1/8" NPT X 2.00                        | 2   | W773965-208     | 316 SS                   | W773965-235    | ALLOY C                                 | W773965-145              | ALLOY 20                              | 66   |

<sup>\*</sup>COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

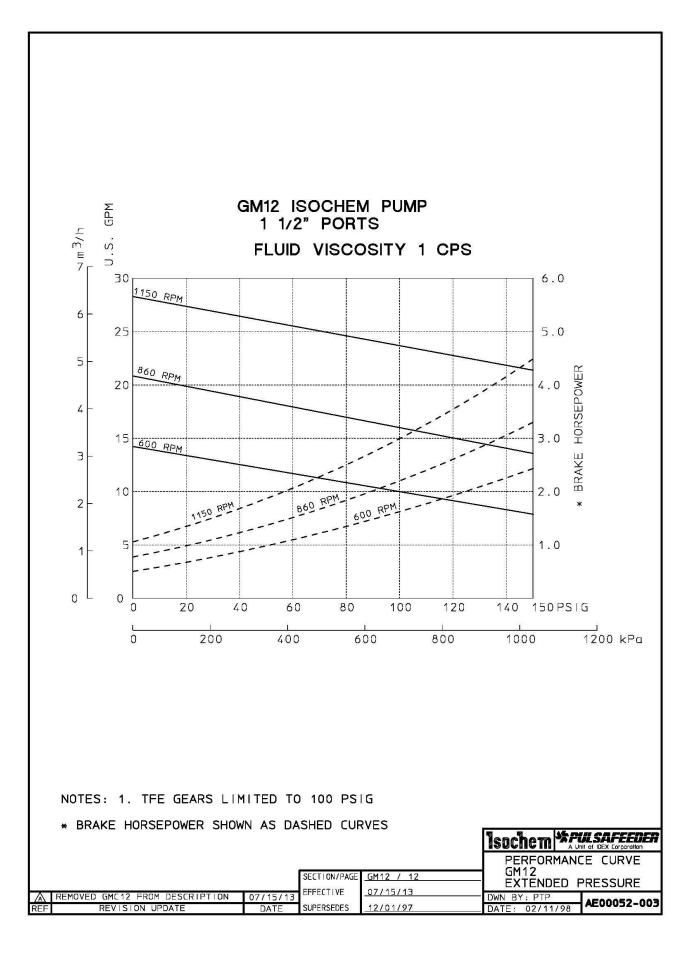


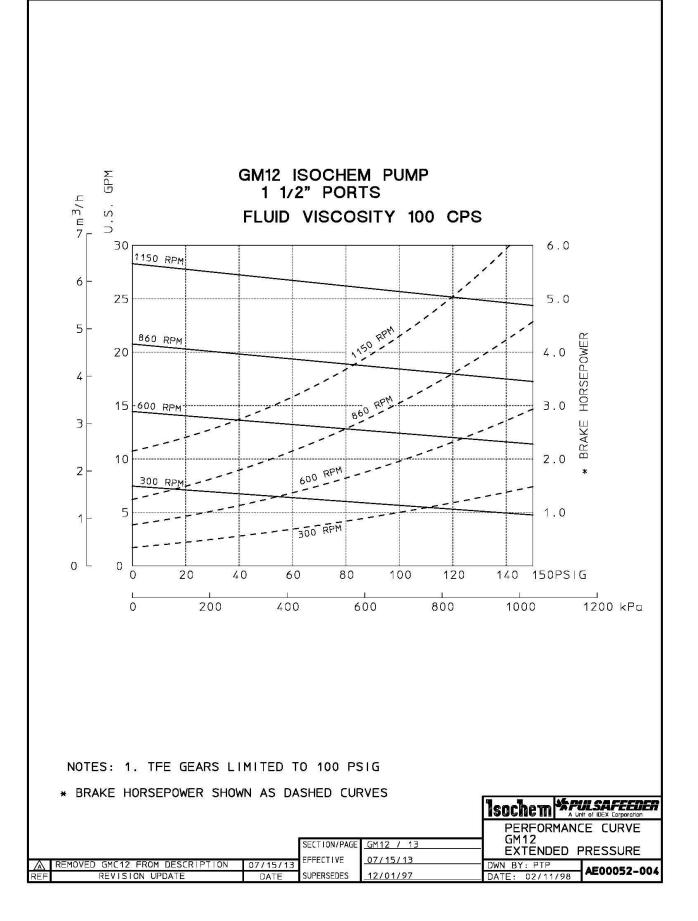
PERSONAL PROPERTY PROF 19-Feb-7004 18-70-33





THE STREET PARTY NAME OF





ITEM CLASS GM12 = IZ PRODUCT LINE = H / ISOCHEM

### ISOCHEM GM12 SERIES PUMP CONSOLIDATED B / M

SECTION: MODEL GM12
PAGE: 200
DATE REV.: 11/12/12
SUPERSEDES: 11/21/11

|            |  |                          |   |  | STANDARD PU   | MP MATERIAL  |   |   |  |
|------------|--|--------------------------|---|--|---|--|---|---|--|
|            | STRUCTURED WITH NO DASHES  |                          | 316   | i SS   | ALLC  | DY C   | ALLO  | Y 20  | 7  |
|            | EXAMPLE: GM12XXXXXX  |                          | (A, K,  | OR U)  | (C, M,  | OR V)  | (D, N, C  | DR W)   |  |
|            | DESCRIPTION  | QTY                      | PART NUMBER   | MATERIAL   | PART NUMBER   | MATERIAL   | PART NUMBER   | MATERIAL  | ITEM   |
| OSITION 3  | STANDARD PUMP - NON-VARIABLE COMPON  | ENTS                     |   |  |   |  |   |   |  |
|            | HOUSING, FRONT   | 1                        | 99609   | 316 SS   | 99610   | ALLOY C  | 99611   | ALLOY 20  | 1  |
|            | HOUSING, CENTER FNPT   | +                        | 90001   | 316 SS   | 90006   | ALLOY C  | 90005   | ALLOY 20  | 2  |
|            | HOUSING, CENTER FBSPT  | 1                        | 90012   | 316 SS   | 90013   | ALLOY C  | 90014   | ALLOY 20  | 2  |
|            | HOUSING, CENTER 1.50-150# FLG  |                          | 90003   | 316 SS   | 90007   | ALLOY C  | 90010   | ALLOY 20  | 2  |
|            | HOUSING, REAR  | 1                        | 90201   | 316 SS   | 90205   | ALLOY C  | 90204   | ALLOY 20  | 3  |
|            | # RING, RETAINING 1"   | 4-6                      | 96702   | 316 SS   | 96708   | ALLOY C  | 96708   | ALLOY C   | 10   |
|            | # RING, RETAINING 3 / 4"   | 0-2                      | 96701   | 316 SS   | 96709   | ALLOY C  | 96709   | ALLOY C   | 11   |
|            | # KEY, DRIVE GEAR 1"   | *1                       | 91904   | 316 SS   | 91910   | ALLOY C  | 91910   | ALLOY C   | 8, 9   |
|            | # KEY, MTL IDLER GEAR 1"   | *0-1                     | 91904   | 316 SS   | 91910   | ALLOY C  | 91910   | ALLOY C   | 9  |
|            | # KEY, CBN IDLER GEAR 3 / 4"   | 0-2                      | 91925   | 316 SS   | 91926   | ALLOY C  | 91926   | ALLOY C   | 9  |
|            | # KEY, PLASTIC IDLER GEAR 3 / 4"   | 0-2                      | 91901   | 316 SS   | 91912   | ALLOY C  | 91912   | ALLOY C   | 9  |
|            | # KEY, MAGNETIC CPLG - DRIVEN  | *1                       | 91904   | 316 SS   | 91910   | ALLOY C  | 91910   | ALLOY C   | 21   |
|            | # PIN, BEARING LOCK  | *4                       | 90801   | 316 SS   | 90803   | ALLOY C  | 90803   | ALLOY C   | 14   |
|            | # BUSHING, RECIRCLATION (.000)   | 1                        | 99618-00  | TFE  | 99618-00  | TFE  | 99618-00  | TFE   | 23   |
|            | # O-RING, HOUSING  | 2                        | 91101   | TFE  | 91101   | TFE  | 91101   | TFE   | 16   |
|            | PIN, HOUSING   | *4                       | 90801   | 316 SS   | 90801   | 316 SS   | 90801   | 316 SS  | 17   |
|            | BOLT, CENTER HOUSING (ALL)   | 12                       | W770412-188   | 188 SS   | W770412-188   | 188 SS   | W770412-188   | 188 SS  | 18   |
|            | LOCKWASHER, HOUSING  | 12                       | W771107-188   | 188 SS   | W771107-188   | 188 SS   | W771107-188   | 188 SS  | 20   |
|            | PLUG, 1 / 8" NPT   | **1                      | W772565-316   | 316 SS   | 52301   | ALLOY C  | 52300   | ALLOY 20  | 62   |
|            | PLUG, 1 / 4" NPT   | 4                        | 16415   | 316 SS   | 16422   | ALLOY C  | 16432   | ALLOY 20  | 63   |
|            | NAMEPLATE  | 1                        | 41210   | 188 SS   | 41210   | 188 SS   | 41210   | 188 SS  |  |
| OSITION 9. | 10, AND 11 OPTIONS - DELETE CORRESPONDING ST   | ANDARI                   | D PUMP COMPONE  | ENT FROM B / M   |   |  |   |   |  |
|            | HOUSING, CENTER - VENT FNPT  |                          | 90001-2   |  |   |  |   |   |  |
|            | HOUSING, CENTER - VENT FBSPT   |                          |   | 316 SS   | 90006-2   | ALLOY C  | 90005-2   | ALLOY 20  | 2  |
| V          | HOOSING, CENTER - VENT 1 BSF1  | 1                        | 90012-2   | 316 SS<br>316 SS   | 90006-2<br>90013-2  | ALLOY C  | 90005-2<br>90014-2  | ALLOY 20<br>ALLOY 20  | 2  |
|            | HOUSING, CENTER - VENT FLGD  | 1                        |   |  |   | 7-400 (I I I I I I I I I I I I I I I I I I   |   |   | 2  |
|            | The state of the s | 1 *1                     | 90012-2   | 316 SS   | 90013-2   | ALLOY C  | 90014-2   | ALLOY 20  | 2  |
|            | HOUSING, CENTER - VENT FLGD  |                          | 90012-2<br>90003-2  | 316 SS<br>316 SS   | 90013-2<br>90007-2  | ALLOY C  | 90014-2<br>90010-2  | ALLOY 20<br>ALLOY 20  | 2<br>2<br>62   |
| В          | HOUSING, CENTER - VENT FLGD PLUG, 1 / 8" NPT   | *1                       | 90012-2<br>90003-2<br>W772565-316   | 316 SS<br>316 SS<br>316 SS   | 90013-2<br>90007-2<br>52301   | ALLOY C<br>ALLOY C<br>ALLOY C  | 90014-2<br>90010-2<br>52300   | ALLOY 20<br>ALLOY 20<br>ALLOY 20  | 2<br>62<br>16  |
| В          | HOUSING, CENTER - VENT FLGD<br>PLUG, 1 / 8" NPT<br># O-RING, HOUSING   | *1                       | 90012-2<br>90003-2<br>W772565-316<br>91106  | 316 SS<br>316 SS<br>316 SS<br>SS / PFA   | 90013-2<br>90007-2<br>52301<br>91106  | ALLOY C ALLOY C ALLOY C SS / PFA   | 90014-2<br>90010-2<br>52300<br>91106  | ALLOY 20<br>ALLOY 20<br>ALLOY 20<br>SS / PFA  | 2<br>2<br>62<br>16   |
| В          | HOUSING, CENTER - VENT FLGD PLUG, 1 / 8" NPT # O-RING, HOUSING # O-RING, CONTAINMENT CAN   | *1<br>2<br>1-2           | 90012-2<br>90003-2<br>W772565-316<br>91106<br>W212172-001   | 316 SS<br>316 SS<br>316 SS<br>SS / PFA<br>SS / PFA   | 90013-2<br>90007-2<br>52301<br>91106<br>W212172-001   | ALLOY C ALLOY C ALLOY C SS / PFA SS / PFA  | 90014-2<br>90010-2<br>52300<br>91106<br>W212172-001   | ALLOY 20<br>ALLOY 20<br>ALLOY 20<br>SS / PFA<br>SS / PFA  | 2<br>62<br>16<br>25<br>3   |
| 8          | HOUSING, CENTER - VENT FLGD PLUG, 1 / 8" NPT # O-RING, HOUSING # O-RING, CONTAINMENT CAN HOUSING, REAR - RECIRCULATION   | *1<br>2<br>1-2           | 90012-2<br>90003-2<br>W772565-316<br>91106<br>W212172-001<br>90201-3  | 316 SS<br>316 SS<br>316 SS<br>SS / PFA<br>SS / PFA<br>316 SS   | 90013-2<br>90007-2<br>52301<br>91106<br>W212172-001<br>90205-3  | ALLOY C ALLOY C ALLOY C SS / PFA SS / PFA ALLOY C  | 90014-2<br>90010-2<br>52300<br>91106<br>W212172-001<br>90204-3  | ALLOY 20<br>ALLOY 20<br>ALLOY 20<br>SS / PFA<br>SS / PFA<br>ALLOY 20                            | 2<br>62<br>16<br>25<br>3   |
| B<br>R     | HOUSING, CENTER - VENT FLGD PLUG, 1 / 8" NPT # O-RING, HOUSING # O-RING, CONTAINMENT CAN HOUSING, REAR - RECIRCULATION # BUSHING, RECIRCULATION (.060)   | *1<br>2<br>1-2<br>1<br>2 | 90012-2<br>90003-2<br>W772565-316<br>91106<br>W212172-001<br>90201-3<br>99618-06  | 316 SS<br>316 SS<br>316 SS<br>SS / PFA<br>SS / PFA<br>316 SS<br>TFE  | 90013-2<br>90007-2<br>52301<br>91106<br>W212172-001<br>90205-3<br>99618-06  | ALLOY C ALLOY C ALLOY C SS / PFA SS / PFA ALLOY C TFE  | 90014-2<br>90010-2<br>52300<br>91106<br>W212172-001<br>90204-3<br>99618-06  | ALLOY 20<br>ALLOY 20<br>ALLOY 20<br>SS / PFA<br>SS / PFA<br>ALLOY 20<br>TFE                     | 2<br>62<br>16<br>25<br>3<br>23                                   |
| 8          | HOUSING, CENTER - VENT FLGD PLUG, 1 / 8" NPT # O-RING, HOUSING # O-RING, CONTAINMENT CAN HOUSING, REAR - RECIRCULATION # BUSHING, RECIRCULATION (.060) # WEAR PLATE, RECIRCULATION   | *1<br>2<br>1-2           | 90012-2<br>90003-2<br>W772565-316<br>91106<br>W212172-001<br>90201-3<br>99618-06<br>90516   | 316 SS<br>316 SS<br>316 SS<br>SS / PFA<br>SS / PFA<br>316 SS<br>TFE<br>CARBON  | 90013-2<br>90007-2<br>52301<br>91106<br>W212172-001<br>90205-3<br>99618-06<br>90516   | ALLOY C ALLOY C ALLOY C SS / PFA SS / PFA ALLOY C TFE CARBON                                       | 90014-2<br>90010-2<br>52300<br>91106<br>W212172-001<br>90204-3<br>99618-06<br>90516   | ALLOY 20 ALLOY 20 ALLOY 20 SS / PFA SS / PFA ALLOY 20 TFE CARBON                                | 2<br>62<br>16<br>25<br>3<br>23<br>15                             |
| 8          | HOUSING, CENTER - VENT FLGD PLUG, 1 / 8" NPT # O-RING, HOUSING # O-RING, CONTAINMENT CAN HOUSING, REAR - RECIRCULATION # BUSHING, RECIRCULATION (.060) # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION   | *1<br>2<br>1-2<br>1<br>2 | 90012-2<br>90003-2<br>W772565-316<br>91106<br>W212172-001<br>90201-3<br>99618-06<br>90516<br>90517  | 316 SS<br>316 SS<br>316 SS<br>SS / PFA<br>SS / PFA<br>316 SS<br>TFE<br>CARBON<br>TFE (GF)  | 90013-2<br>90007-2<br>52301<br>91106<br>W212172-001<br>90205-3<br>99618-06<br>90516<br>90517                                | ALLOY C ALLOY C ALLOY C SS / PFA SS / PFA ALLOY C TFE CARBON TFE (GF)                              | 90014-2<br>90010-2<br>52300<br>91106<br>W212172-001<br>90204-3<br>99618-06<br>90516<br>90517                                | ALLOY 20 ALLOY 20 ALLOY 20 SS / PFA SS / PFA ALLOY 20 TFE CARBON TFE (GF)                       | 2<br>62<br>16<br>25<br>3<br>23<br>15<br>15                       |
| 8          | HOUSING, CENTER - VENT FLGD PLUG, 1 / 8" NPT  # O-RING, HOUSING # O-RING, CONTAINMENT CAN HOUSING, REAR - RECIRCULATION # BUSHING, RECIRCULATION # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION   | *1<br>2<br>1-2<br>1<br>2 | 90012-2<br>90003-2<br>W772565-316<br>91106<br>W212172-001<br>90201-3<br>99618-06<br>90516<br>90517<br>90518   | 316 SS<br>316 SS<br>316 SS<br>SS / PFA<br>SS / PFA<br>316 SS<br>TFE<br>CARBON<br>TFE (GF)<br>CERAMIC                                       | 90013-2<br>90007-2<br>52301<br>91106<br>W212172-001<br>90205-3<br>99618-06<br>90516<br>90517<br>90518                       | ALLOY C ALLOY C ALLOY C SS / PFA SS / PFA ALLOY C TFE CARBON TFE (GF) CERAMIC                      | 90014-2<br>90010-2<br>52300<br>91106<br>W212172-001<br>90204-3<br>99618-06<br>90516<br>90517<br>90518                       | ALLOY 20 ALLOY 20 ALLOY 20 SS / PFA SS / PFA ALLOY 20 TFE CARBON TFE (GF) CERAMIC               | 2<br>62<br>16<br>25<br>3<br>23<br>15<br>15<br>15                 |
| R          | HOUSING, CENTER - VENT FLGD PLUG, 1 / 8" NPT  # O-RING, HOUSING # O-RING, CONTAINMENT CAN HOUSING, REAR - RECIRCULATION # BUSHING, RECIRCULATION # WEAR PLATE, RECIRCULATION   | *1<br>2<br>1-2<br>1<br>2 | 90012-2<br>90003-2<br>W772565-316<br>91106<br>W212172-001<br>90201-3<br>99618-06<br>90516<br>90517<br>90518<br>90519                                | 316 SS<br>316 SS<br>316 SS<br>SS / PFA<br>SS / PFA<br>316 SS<br>TFE<br>CARBON<br>TFE (GF)<br>CERAMIC<br>PEEK                               | 90013-2<br>90007-2<br>52301<br>91106<br>W212172-001<br>90205-3<br>99618-06<br>90516<br>90517<br>90518<br>90519              | ALLOY C ALLOY C ALLOY C SS / PFA SS / PFA ALLOY C TFE CARBON TFE (GF) CERAMIC PEEK                 | 90014-2<br>90010-2<br>52300<br>91106<br>W212172-001<br>90204-3<br>99618-06<br>90516<br>90517<br>90518<br>90519              | ALLOY 20 ALLOY 20 ALLOY 20 SS / PFA SS / PFA ALLOY 20 TFE CARBON TEE (GF) CERAMIC PEEK          | 2<br>62<br>16<br>25<br>3<br>23<br>15<br>15<br>15<br>15<br>24     |
| Ř          | HOUSING, CENTER - VENT FLGD PLUG, 1 / 8" NPT # O-RING, HOUSING # O-RING, CONTAINMENT CAN HOUSING, REAR - RECIRCULATION # BUSHING, RECIRCULATION # WEAR PLATE, RECIRCULATION DRIVEN MAGNET ASSY (WELDED)  | *1 2 1-2 1 2 4 1         | 90012-2<br>90003-2<br>W772565-316<br>91106<br>W212172-001<br>90201-3<br>99618-06<br>90516<br>90517<br>90518<br>90519<br>99663                       | 316 SS<br>316 SS<br>316 SS<br>SS / PFA<br>SS / PFA<br>316 SS<br>TFE<br>CARBON<br>TFE (GF)<br>CERAMIC<br>PEEK<br>316 SS                     | 90013-2<br>90007-2<br>52301<br>91106<br>W212172-001<br>90205-3<br>99618-06<br>90516<br>90517<br>90518<br>90519<br>99664     | ALLOY C ALLOY C ALLOY C SS / PFA SS / PFA ALLOY C TFE CARBON TFE (GF) CERAMIC PEEK ALLOY C         | 90014-2<br>90010-2<br>52300<br>91106<br>W212172-001<br>90204-3<br>99618-06<br>90516<br>90517<br>90518<br>90519<br>99665     | ALLOY 20 ALLOY 20 ALLOY 20 SS / PFA SS / PFA ALLOY 20 TFE CARBON TEE (GF) CERAMIC PEEK ALLOY 20 | 2<br>2<br>62<br>16<br>25<br>3<br>3<br>23<br>15<br>15<br>15<br>24 |
| R          | HOUSING, CENTER - VENT FLGD PLUG, 1 / 8" NPT  # O-RING, HOUSING # O-RING, CONTAINMENT CAN HOUSING, REAR - RECIRCULATION # BUSHING, RECIRCULATION # WEAR PLATE, RECIRCULATION DRIVEN MAGNET ASSY (WELDED) # DRIVE SHAFT   | *1 2 1-2 1 2 4 1         | 90012-2<br>90003-2<br>W772565-316<br>91106<br>W212172-001<br>90201-3<br>99618-06<br>90516<br>90517<br>90518<br>90519<br>99663<br>90367              | 316 SS<br>316 SS<br>316 SS<br>SS / PFA<br>SS / PFA<br>316 SS<br>TFE<br>CARBON<br>TFE (GF)<br>CERAMIC<br>PEEK<br>316 SS<br>316 SS           | 90013-2<br>90007-2<br>52301<br>91106<br>W212172-001<br>90205-3<br>99618-06<br>90516<br>90517<br>90518<br>90519<br>99664     | ALLOY C ALLOY C ALLOY C SS / PFA SS / PFA ALLOY C TFE CARBON TFE (GF) CERAMIC PEEK ALLOY C         | 90014-2<br>90010-2<br>52300<br>91106<br>W212172-001<br>90204-3<br>99618-06<br>90516<br>90517<br>90518<br>90519<br>99665<br> | ALLOY 20 ALLOY 20 ALLOY 20 SS / PFA SS / PFA ALLOY 20 TFE CARBON TEE (GF) CERAMIC PEEK ALLOY 20 | 2 2 2 62 16 25 3 3 23 15 15 15 24                                |
| Ŕ          | HOUSING, CENTER - VENT FLGD PLUG, 1 / 8" NPT # O-RING, HOUSING # O-RING, CONTAINMENT CAN HOUSING, REAR - RECIRCULATION # BUSHING, RECIRCULATION # WEAR PLATE, RECIRCULATION DRIVEN MAGNET ASSY (WELDED) # DRIVE SHAFT IDLER SHAFT ASSEMBLY   | *1 2 1-2 1 2 4 1 1 1     | 90012-2<br>90003-2<br>W772565-316<br>91106<br>W212172-001<br>90201-3<br>99618-06<br>90516<br>90517<br>90519<br>99663<br>90367                       | 316 SS<br>316 SS<br>316 SS<br>SS / PFA<br>SS / PFA<br>316 SS<br>TFE<br>CARBON<br>TTE (GF)<br>CERAMIC<br>PEEK<br>316 SS<br>316 SS           | 90013-2<br>90007-2<br>52301<br>91106<br>W212172-001<br>90205-3<br>99618-06<br>90516<br>90517<br>90518<br>90519<br>99664     | ALLOY C ALLOY C ALLOY C ALLOY C SS / PFA SS / PFA ALLOY C TFE CARBON TFE (GF) CERAMIC PEEK ALLOY C | 90014-2<br>90010-2<br>52300<br>91106<br>W212172-001<br>90204-3<br>99618-06<br>90516<br>90517<br>90518<br>90519<br>99665<br> | ALLOY 20 ALLOY 20 ALLOY 20 SS / PFA SS / PFA ALLOY 20 TFE CARBON TEE (GF) CERAMIC PEEK ALLOY 20 | 2<br>62<br>16<br>25<br>3<br>23<br>15<br>15<br>15<br>24           |
| R          | HOUSING, CENTER - VENT FLGD PLUG, 1 / 8" NPT # O-RING, HOUSING # O-RING, CONTAINMENT CAN HOUSING, REAR - RECIRCULATION # BUSHING, RECIRCULATION (.060) # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION DRIVEN MAGNET ASSY (WELDED) # DRIVE SHAFT IDLER SHAFT ASSEMBLY SHAFT, SLEEVED IDLER 3/4"  | *1 2 1-2 1 2 4 1 1 1 1   | 90012-2<br>90003-2<br>W772565-316<br>91106<br>W212172-001<br>90201-3<br>99618-06<br>90516<br>90517<br>90518<br>90519<br>99663<br>90367<br>          | 316 SS<br>316 SS<br>316 SS<br>SS / PFA<br>SS / PFA<br>316 SS<br>TFE<br>CARBON<br>TFE (GF)<br>CERAMIC<br>PEEK<br>316 SS<br>316 SS<br>316 SS | 90013-2<br>90007-2<br>52301<br>91106<br>W212172-001<br>90205-3<br>99618-06<br>90516<br>90517<br>90518<br>90519<br>99664<br> | ALLOY C ALLOY C ALLOY C ALLOY C SS / PFA SS / PFA ALLOY C TFE CARBON TFE (GF) CERAMIC PEEK ALLOY C | 90014-2<br>90010-2<br>52300<br>91106<br>W212172-001<br>90204-3<br>99618-06<br>90516<br>90517<br>90518<br>90519<br>99665<br> | ALLOY 20 ALLOY 20 ALLOY 20 SS / PFA SS / PFA ALLOY 20 TFE CARBON TFE (GF) CERAMIC PEEK ALLOY 20 | 2<br>62<br>16<br>25<br>3<br>23<br>15<br>15<br>15<br>24<br>       |
| R<br>W     | HOUSING, CENTER - VENT FLGD PLUG, 1 / 8" NPT  # O-RING, HOUSING # O-RING, CONTAINMENT CAN HOUSING, REAR - RECIRCULATION # BUSHING, RECIRCULATION (.060) # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION DRIVEN MAGNET ASSY (WELDED) # DRIVE SHAFT IDLER SHAFT SHEEVED IDLER 3/4" # SLEEVE SHAFT 1"   | *1 2 1-2 1 2 4 1 1 1 2   | 90012-2<br>90003-2<br>W772565-316<br>91106<br>W212172-001<br>90201-3<br>99618-06<br>90516<br>90517<br>90518<br>90519<br>99663<br>90367<br><br>90397 | 316 SS<br>316 SS<br>316 SS<br>SS / PFA<br>SS / PFA<br>316 SS<br>TFE<br>CARBON<br>TFE (GF)<br>CERAMIC<br>PEEK<br>316 SS<br>316 SS<br>316 SS | 90013-2<br>90007-2<br>52301<br>91106<br>W212172-001<br>90205-3<br>99618-06<br>90516<br>90517<br>90518<br>90519<br>99664<br> | ALLOY C ALLOY C ALLOY C ALLOY C SS / PFA SS / PFA ALLOY C TFE CARBON TFE (GF) CERAMIC PEEK ALLOY C | 90014-2 90010-2 52300 91106 W212172-001 90204-3 99618-06 90516 90517 90518 90519 99665                                      | ALLOY 20 ALLOY 20 ALLOY 20 SS / PFA SS / PFA ALLOY 20 TFE CARBON TFE (GF) CERAMIC PEEK ALLOY 20 | 2<br>2<br>62<br>16<br>25<br>3<br>23<br>15<br>15<br>15<br>24<br>  |

<sup>\*</sup>COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M

DWG: GM12P200

<sup>\*\*</sup>QTY (2) WHEN PUMP HAS FNPT OR FBSPT CENTER HOUSING; COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B/M

<sup>#</sup> DENOTES RECOMMENDED SPARE PART

# ISOCHEM GM12 SERIES PUMP CONSOLIDATED B / M

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|               |                                 |           |      |                      |             | STANDARD PU                            | MP MATERIAL          |   |            | 1      |
|---------------|---------------------------------|-----------|------|----------------------|-------------|--|----------------------|---|------------|--------|
|               |                                 |           |      | 316                  | SS          | ALLO                                   |                      | ALLO                                    | Y 20       | 1      |
|               |                                 |           |      | (A, K,               | OR U)       | (C, M,                                 | OR V)                | (D, N, 0                                | OR W)      |        |
|               | DESCRIPTION                     |           | QTY  | PART NUMBER          | MATERIAL    | PART NUMBER                            | MATERIAL             | PART NUMBER                             | MATERIAL   | ITEM   |
| POSITION 4 &  | 5 DRIVE AND IDLER GEAR MATERIAL |           |      |                      |             |  |                      |   |            |        |
| Α             | # GEAR, DRIVE/IDLER             | 1"        | 1-2  | 90679                | 316 SS      |  |                      |   |            | 6, 7   |
| С             | # GEAR, DRIVE/IDLER             | 1"        | 1-2  | 90627                | ALLOY C     | 90627                                  | ALLOY C              | 90627                                   | ALLOY C    | 6, 7   |
| К             | # GEAR, IDLER                   | 3/4"      |      | 90664                | CARBON      | 90664                                  | CARBON               | 90664                                   | CARBON     | 7      |
| т             | # GEAR, IDLER                   | 3/4"      | 0-1  | 90682                | TFE (GF)    | 90682                                  | TFE (GF)             | 90682                                   | TFE (GF)   | 7      |
| E             | # GEAR, IDLER                   | 3/4"      |      | 90677                | PEEK        | 90677                                  | PEEK                 | 90677                                   | PEEK       | 7      |
|               |                                 |           |      |                      |             |  |                      |   |            |        |
| POSITION 6    | WEAR PLATE MATERIAL             |           |      |                      |             |  |                      |   |            |        |
| К             | # WEAR PLATE, SLOTTED           |           |      | 90503                | CARBON      | 90503                                  | CARBON               | 90503                                   | CARBON     | 15     |
| Т             | # WEAR PLATE, SLOTTED           |           | 4    | 90510                | TFE (GF)    | 90510                                  | TFE (GF)             | 90510                                   | TFE (GF)   | 15     |
| Z             | # WEAR PLATE, SLOTTED           |           | 2024 | 90512                | CERAMIC     | 90512                                  | CERAMIC              | 90512                                   | CERAMIC    | 15     |
| E             | # WEAR PLATE, SLOTTED           |           |      | 90515                | PEEK        | 90515                                  | PEEK                 | 90515                                   | PEEK       | 15     |
|               |                                 |           |      |                      |             |  |                      |   |            |        |
| POSITION 7    | SHAFT AND BEARING MATERIAL      |           |      |                      |             |  |                      |   |            |        |
| STANDARD CO   | ONSTRUCTION                     |           |      |                      |             |  | 2000 (1000 1000 1000 | 1                                       |            | T      |
|               | # BEARING, DRIVE/IDLER SHAF     | 1"        | 4    | 90437                | EWCBN       | 90437                                  | EWCBN                | 90437                                   | EWCBN      | 12, 13 |
|               | # SHAFT, DRIVE                  | 200       | 1    | 90367                | 316 SS      | 90368                                  | ALLOY C              | 90369                                   | ALLOY 20   | 4      |
|               | # SHAFT, IDLER (METAL GEAR)     | 1"        | 1    | 90308                | 316 SS      | 90318                                  | ALLOY C              | 90364                                   | ALLOY 20   | 5      |
| Ľ             | IDLER SHAFT ASSEMBLY            | 3/4"      |      | 5.75.75              |             |  |                      | ****                                    |            |        |
|               | SHAFT, SLEEVED IDLER            |           | 1    | 90397                | 316 SS      | 90398                                  | ALLOY C              | 90399                                   | ALLOY 20   | 5      |
|               | SHAFT, SLEEVED IDLER (CBN GR)   | 2280      |      | 99669                | 316 SS      | 99670                                  | ALLOY C              | 99671                                   | ALLOY 20   | 5      |
|               | # SLEEVE, SHAFT                 | 1"        | 2    | 90391                | 316 SS      | 90392                                  | ALLOY C              | 90393                                   | ALLOY 20   | 42     |
|               | # SCREW, SLEEVE                 | 000       | 2    | W770021-316          | 316 SS      | W770021-HC0                            | ALLOY C              | W770021-020                             | ALLOY 20   | 43     |
|               | # BEARING, DRIVE/IDLER SHAFT    | 1"        | 4    | 90428                | TFE (GF)    | 90428                                  | TFE (GF)             | 90428                                   | TFE (GF)   | 12, 13 |
|               | # SHAFT, DRIVE                  | 1974      | 1    | 90367                | 316 SS      | 90368                                  | ALLOY C              | 90369                                   | ALLOY 20   | 4      |
|               | # SHAFT, IDLER (METAL GEAR)     | 1"        | 1    | 90308                | 316 SS      | 90318                                  | ALLOY C              | 90364                                   | ALLOY 20   | 5      |
| T             |                                 | 3/4"      |      | 20000000<br>00000000 |             | *****                                  | 1000000 TO 10000000  | 2000000<br>0000000<br>000000000000      |            |        |
|               | SHAFT, SLEEVED IDLER            |           | 1    | 90397                | 316 SS      | 90398                                  | ALLOY C              | 90399                                   | ALLOY 20   | 5      |
|               | SHAFT, SLEEVED IDLER (CBN GR)   |           | 2000 | 99669                | 316 SS      | 99670                                  | ALLOY C              | 99671                                   | ALLOY 20   | 5      |
|               | # SLEEVE, SHAFT                 | 1"        | 2    | 90391                | 316 SS      | 90392                                  | ALLOY C              | 90393                                   | ALLOY 20   | 42     |
|               | # SCREW, SLEEVE                 | 20Wei     | 2    | W770021-316          | 316 SS      | W770021-HC0                            | ALLOY C              | W770021-020                             | ALLOY 20   | 43     |
|               | # BEARING, SLTD DRV/IDL SHAFT   | 1"        | 4    | 90441                | EWCBN       | 90441                                  | EWCBN                | 90441                                   | EWCBN      | 12, 13 |
|               | # SHAFT, DRIVE                  | 0296      | 1    | 90367                | 316 SS      | 90368                                  | ALLOY C              | 90369                                   | ALLOY 20   | 4      |
|               | # SHAFT, IDLER (METAL GEAR)     | 1"        | 1    | 90308                | 316 SS      | 90318                                  | ALLOY C              | 90364                                   | ALLOY 20   | 5      |
| 4             |                                 | 3/4"      |      |                      |             |  |                      |   |            |        |
|               | SHAFT, SLEEVED IDLER            |           | 1    | 90397                | 316 SS      | 90398                                  | ALLOY C              | 90399                                   | ALLOY 20   | 5      |
|               | SHAFT, SLEEVED IDLER (CBN GR)   | A11       |      | 99669                | 316 SS      | 99670                                  | ALLOY C              | 99671                                   | ALLOY 20   | 5      |
|               | # SLEEVE, SHAFT                 | 1"        | 2    | 90391                | 316 SS      | 90392                                  | ALLOY C              | 90393                                   | ALLOY 20   | 42     |
|               | # SCREW, SLEEVE                 |           | 2    | W770021-316          | 316 SS      | W770021-HC0                            | ALLOY C              | W770021-020                             | ALLOY 20   | 43     |
| EVTENDED /*** | EAR - BOTH SHAFTS               |           |      |                      |             |  |                      |   |            |        |
| LATENDED/W    | # BEARING, DRIVE/IDLER SHAFT    | 1"        | 4    | 90437                | EWCBN       | 90437                                  | EWCBN                | 90437                                   | EWCBN      | 12, 13 |
|               | # SHAFT, DRIVE                  | 1         | 1    | 90370                | CW / 316 SS | 90371                                  | CW / ALY C           | 90372                                   | CW / ALY20 | 12, 13 |
|               | # SHAFT, IDLER (METAL GEAR)     | 1"        | 1    | 90373                | CW / 316 SS | 90374                                  | CW / ALY C           | 90375                                   | CW / ALY20 | 5      |
|               | IDLER SHAFT ASSEMBLY            | 3/4"      | 1    | 90373                |             | 90574                                  | CW / ALT C           | 90575                                   |            |        |
| С             | SHAFT, SLEEVED IDLER            | 3/4       |      | 90397                | 316 SS      | 90398                                  | ALLOY C              | 90399                                   | ALLOY 20   | 5      |
|               | SHAFT, SLEEVED IDLER (CBN GR)   |           | 1    | 99669                | 316 SS      | 99670                                  | ALLOY C              | 20574                                   | ALLOY 20   | -      |
|               | # SLEEVE, SHAFT                 | 1"        | 2    | 90394                | CW / 316 SS | 90395                                  | CW / ALY C           | 99671                                   | CW / ALY20 | 42     |
|               | # SCREW, SLEEVE                 |           | 2    | W770021-316          | 316 SS      | W770021-HC0                            | ALLOY C              | W770021-020                             | ALLOY 20   | 43     |
|               |                                 |           | ~    | 11110021-310         | 210.33      | ************************************** | ACCOT C              | *************************************** | ALLO1 20   | 43     |
| CORROSION/    | WEAR ("CW") - BOTH SHAFTS       |           |      |                      |             |  |                      |   |            |        |
|               | # BEARING, DRIVE/IDLER SHAFT    | Ĩ"        | 4    | 90439                | SICBD       | 90439                                  | SICBD                | 90439                                   | SICBD      | 12, 13 |
|               | # SHAFT, DRIVE                  | *         | 1    | 90370                | CW / 316 SS | 90371                                  | CW / ALY C           | 90372                                   | CW / ALY20 | 4      |
|               | # SHAFT, IDLER (METAL GEAR)     | 1"        |      | 90373                | CW / 316 SS | 90374                                  | CW / ALY C           | 90375                                   | CW / ALY20 | 5      |
|               | IDLER SHAFT ASSEMBLY            | 3/4"      | 1    |                      |             |  |                      |   |            |        |
| В             | SHAFT, SLEEVED IDLER            | <i>□1</i> |      | 90397                | 316 SS      | 90398                                  | ALLOY C              | 90399                                   | ALLOY 20   | 5      |
|               | SHAFT, SLEEVED IDLER (CBN GR)   |           | 1    | 99669                | 316 SS      | 99670                                  | ALLOY C              | 99671                                   | ALLOY 20   | 5      |
|               | # SLEEVE, SHAFT                 | 1"        | 2    | 90394                | CW / 316 SS | 90395                                  | CW / ALY C           | 90396                                   | CW / ALY20 | 42     |
|               | # SCREW, SLEEVE                 |           | 2    | W770021-316          | 316 SS      | W770021-HC0                            | ALLOY C              | W770021-020                             | ALLOY 20   | 43     |
| <u> </u>      | m JUNEVV, JLEEVE                |           |      | 4411005T-2TQ         | 210.22      | WY / / UUZI-TICU                       | ALLUT                | WY / / UUZ 1-UZU                        | ALLUT ZU   | 43     |

\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

DWG: GM12P201

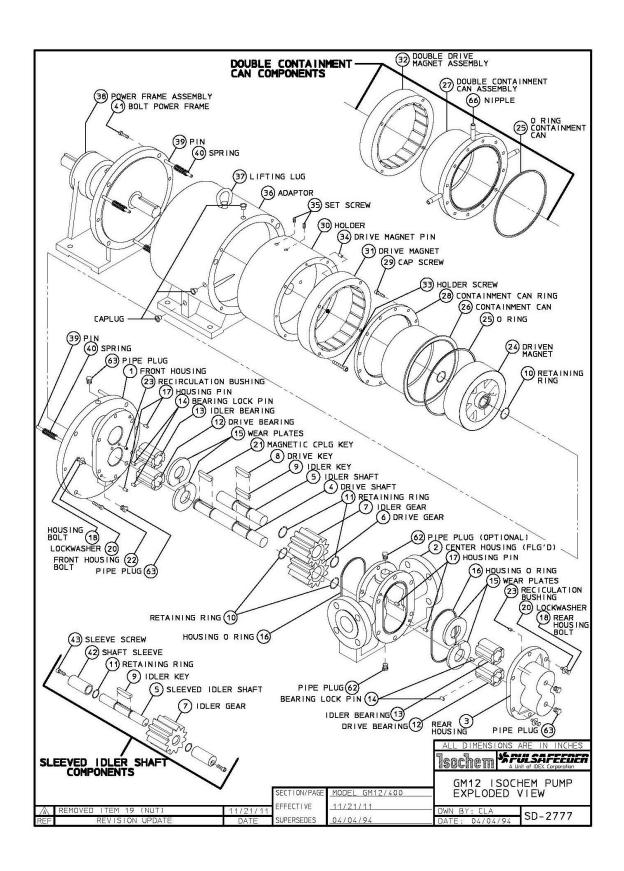
# ISOCHEM GM12 SERIES PUMP CONSOLIDATED B / M

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|  |                                 | ı   |                |               | STANDARD PUT   | MP MATERIAL |                |  | 7    |
|--|---------------------------------|-----|----------------|---------------|----------------|-------------|----------------|--|------|
|  |                                 |     | 316            | SS            | ALLO           |             | ALLO'          | Y 20   | =    |
|  |                                 |     | (A, K, C       | OR U)         | (C, M, C       | OR V)       | (D, N, C       | DR W)  |      |
|  | DESCRIPTION                     | QTY | PART NUMBER    | MATERIAL      | PART NUMBER    | MATERIAL    | PART NUMBER    | MATERIAL   | ITEN |
| POSITION 8   | MAGNETIC COUPLING COMPONENTS    |     |                |               |                |             |                |  |      |
|  | DRIVEN MAGNET ASSY              | 1   | 99626          | 316 SS        | 99627          | ALLOY C     | 99628          | ALLOY 20   | 24   |
|  | BOLT, FRONT HOUSING/ADAPTOR     | *4  | W770426-188    | 188 SS        | W770426-188    | 188 SS      | W770426-188    | 188 SS   | 22   |
|  | # O-RING, CONTAINMENT CAN       | *1  | W212172-TFE    | TFE           | W212172-TFE    | TFE         | W212172-TFE    | TFE  | 25   |
|  | SCREW, SET                      | 2   | W771004-030    | STL           | W771004-030    | STL         | W771004-030    | STL  | 35   |
|  | PIN, DRIVE MAGNET/HOLDER        | 4   | W771209-003    | STL           | W771209-003    | STL         | W771209-003    | STL  | 34   |
|  | SCREW, SKHD DRIVE MAGNET/HOLDER | 4   | W770027-188    | 188 SS        | W770027-188    | 188 SS      | W770027-188    | 188 SS   | 33   |
| COMMON   | CAN, CONTAINMENT                | 1   | 99600          | ALLOY C       | 99600          | ALLOY C     | 99600          | ALLOY C  | 26   |
| PARTS  | SCREW, CONTAINMENT CAN RING     | 12  | W770021-188    | 188 SS        | W770021-188    | 188 SS      | W770021-188    | 188 SS   | 29   |
|  | HOLDER, DRIVE MAGNET            | 1   | 99640          | STL           | 99640          | STL         | 99640          | STL  | 30   |
|  | ADAPTOR, POWERFRAME             | 1   | 99619          | ALU           | 99619          | ALU         | 99619          | ALU  | 36   |
|  | LUG, LIFTING                    | 1   | W212304-STL    | STL           | W212304-STL    | STL         | W212304-STL    | STL  | 37   |
|  | PIN                             | 6   | 99641          | 188 SS        | 99641          | 188 SS      | 99641          | 188     188 SS       TFE     TFE       030     STL       1003     STL       188     188 SS       ALLOY C     188 SS       188 SS     STL       ALU     ALU       STL     STL       188 SS     188 SS       188 SS     188 SS | 39   |
|  | SPRING                          | 6   | 99642          | 188 SS        | 99642          | 188 SS      | 99642          |  | 40   |
|  | BOLT, POWERFRAME                | *4  | W770426-188    | 188 SS        | W770426-188    | 188 SS      | W770426-188    | 188 SS   | 41   |
| R  | DRIVE MAGNET ASSY               | 1   | 99635<br>99630 | STL<br>316 SS | 99635<br>99630 | STL         | 99635<br>99630 | 22200  | 3    |
|  | RING, CONTAINMENT CAN           | 1   | 99630          | 316 SS        | 99630          | 316 SS      | 99630          | 316 55   | 28   |
| OUBLE CONT   | AINMENT CAN COMPONENTS          |     |                |               |                |             |                |  |      |
|  | POWERFRAME µ1.125 INPUT SHAFT   | 1   | 99648          | STL           | 99648          | STL         | 99648          | STL  | 38   |
|  | DRIVE MAGNET ASSY               | 1   | 99638          | STL           | 99638          | STL         | 99638          | STL  | 32   |
| °T   | CAN ASSY, CONTAINMENT           | 1   | 99631          | 316 SS        | 99632          | ALLOY C     | 99633          | ALLOY 20 88 188 5S FE TFE 30 STL 03 STL 88 188 SS ALLOY C 88 188 SS STL ALU TL STL 188 SS 188 SS STL ALU TL STL 5TL STL STL STL STL STL STL STL STL STL S  | 27   |
|  | # O RING, CONTAINMENT CAN ASSY  | *1  | W212172-TFE    | TFE           | W212172-TFE    | TEE         | W212172-TFE    | TFE  | 25   |
|  | NIPPLE, 1/8" NPT X 2.00         | 2   | W773965-208    | 316 SS        | W773965-235    | ALLOY C     | W773965-145    | ALLOY 20   | 66   |
| TANDADD MI   | ETRIC MOUNTING                  |     |                |               |                |             |                |  |      |
|  | NINMENT CAN COMPONENTS          |     |                |               |                |             |                |  |      |
|  | POWERFRAME µ28 MM INPUT SHAFT   | 1   | 99649          | STL           | 99649          | STL         | 99649          | STL  | 38   |
| U  | DRIVE MAGNET ASSY               | 1   | 99635          | STL           | 99635          | STL         | 99635          | STL  | 31   |
|  | RING, CONTAINMENT CAN           | 1   | 99630          | 316 SS        | 99630          | 316 SS      | 99630          | 316 SS   | 28   |
| West Control of the C |                                 |     |                |               |                |             |                |  |      |
| OUBLE CONT   | AINMENT CAN COMPONENTS          | P 1 |                |               |                |             |                |  |      |
|  | POWERFRAME µ28 MM INPUT SHAFT   | 1   | 99649          | STL           | 99649          | STL         | 99649          | STL  | 38   |
|  | DRIVE MAGNET ASSY               | 1   | 99638          | STL           | 99638          | STL         | 99638          | STL  | 32   |
| V  | CAN ASSY, CONTAINMENT           | 1   | 99631          | 316 SS        | 99632          | ALLOY C     | 99633          | ALLOY 20   | 27   |
|  | # O RING, CONTAINMENT CAN ASSY  | *1  | W212172-TFE    | TFE           | W212172-TFE    | TFE         | W212172-TFE    | TFE  | 25   |
|  | NIPPLE, 1/8" NPT X 2.00         | 2   | W773965-208    | 316 SS        | W773965-235    | ALLOY C     | W773965-145    | ALLOY 20   | 66   |

\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

DWG: GM12P202



ITEM CLASS GM16 = IU PRODUCT LINE = H / ISOCHEM

# **ISOCHEM GM16 SERIES PUMP** CONSOLIDATED B / M

SECTION: PAGE: DATE REV.: SUPERSEDES: MODEL GM16

200 11 / 12 / 12 02 / 23 / 10

|               |  |          |  |          | STANDARD PU | MP MATERIAL |             |          |        |
|---------------|--|----------|--|----------|-------------|-------------|-------------|----------|--------|
|               | STRUCTURED WITH NO DASHES              |          | 310  | S SS     | ALLO        | DY C        | ALLO        | Y 20     | 7      |
|               | EXAMPLE: GM16XXXXXX                    |          | (1   | J)       | ()          | /)          | (W          | /)       |        |
|               | DESCRIPTION                            | QT       | PART NUMBER  | MATERIAL | PART NUMBER | MATERIAL    | PART NUMBER | MATERIAL | ITEM   |
| POSITION 3    | STANDARD PUMP - NON-VARIABLE CO        | MPONENTS |  |          |             |             |             |          |        |
|               | HOUSING, FRONT                         | 1        | 99609  | 316 SS   | 99610       | ALLOY C     | 99611       | ALLOY 20 | 1      |
|               | HOUSING, CENTER 2.00-150# FLG          | 1        | 90020  | 316 SS   | 90021       | ALLOY C     | 90022       | ALLOY 20 | 2      |
|               | HOUSING, REAR                          | 1        | 90201  | 316 SS   | 90205       | ALLOY C     | 90204       | ALLOY 20 | 3      |
|               | # RING, RETAINING                      | 1" 4-6   | 96702  | 316 SS   | 96708       | ALLOY C     | 96708       | ALLOY C  | 10, 11 |
|               | # RING, RETAINING                      | 3/4" 0-2 | 96701  | 316 SS   | 96709       | ALLOY C     | 96709       | ALLOY C  | 11     |
|               | # KEY, MTL DRIVE/IDLER GEAR            | 1" *2    | 91904  | 316 SS   | 91910       | ALLOY C     | 91910       | ALLOY C  | 8,9    |
|               | # KEY, MTL IDLER GEAR                  | 1" *0-   | 91904  | 316 SS   | 91910       | ALLOY C     | 91910       | ALLOY C  | 8, 9   |
|               | # KEY, CBN/PLSTC GEAR 3                | /4" 0-2  | 91929  | ALLOY C  | 91929       | ALLOY C     | 91929       | ALLOY C  | 9      |
|               | # KEY, MAGNETIC CPLG - DRIVEN          | *2       | 91904  | 316 SS   | 91910       | ALLOY C     | 91910       | ALLOY C  | 21     |
|               | # PIN, BEARING LOCK                    | *4       | 90801  | 316 SS   | 90803       | ALLOY C     | 90803       | ALLOY C  | 14     |
|               | # BUSHING, RECIRCULATION (.000)        | 1        | 99618-00   | TFE      | 99618-00    | TFE         | 99618-00    | TFE      | 23     |
|               | # O-RING, HOUSING                      | 2        | 91101  | TFE      | 91101       | TEE         | 91101       | TFE      | 16     |
|               | PIN, HOUSING                           | *4       | 90801  | 316 SS   | 90801       | 316 SS      | 90801       | 316 SS   | 17     |
|               | BOLT, HOUSING                          | 12       | W770412-188  | 188 SS   | W770412-188 | 188 SS      | W770412-188 | 188 SS   | 18     |
|               | LOCKWASHER, HOUSING                    | 12       | W771107-188  | 188 SS   | W771107-188 | 188 SS      | W771107-188 | 188 SS   | 20     |
|               | PLUG, 1/4" NPT                         | 6        | 16415  | 316 SS   | 16422       | ALLOY C     | 16432       | ALLOY 20 | 63     |
|               | NAMEPLATE                              | 1        | 41210  | 188 SS   | 41210       | 188 SS      | 41210       | 188 SS   |        |
| POSITION 9, : | 10, AND 11 OPTIONS - DELETE CORRESPOND |          | The second secon |          |             |             |             |          | Lan    |
| В             | # O-RING, HOUSING                      | 2        | 91106  | SS / PFA | 91106       | SS / PFA    | 91106       | SS / PFA | 16     |
|               | # O-RING, CONTAINMENT CAN              | 1-2      |  | SS / PFA | W212172-001 | SS / PFA    | W212172-001 | SS / PFA | 25     |
|               | HOUSING, REAR - RECIRCULATION          | 1        | 90201-3  | 316 SS   | 90205-3     | ALLOY C     | 90204-3     | ALLOY 20 | 3      |
|               | #BUSHING, RECIRCULATION (.060)         | 2        | 99618-06   | TFE      | 99618-06    | TFE         | 99618-06    | TFE      | 23     |
| R             | # WEAR PLATE, RECIRCULATION            | 4        | 90516  | CARBON   | 90516       | CARBON      | 90516       | CARBON   | 15     |
|               | # WEAR PLATE, RECIRCULATION            |          | 90517  | TFE (GF) | 90517       | TFE (GF)    | 90517       | TFE (GF) | 15     |
|               | # WEAR PLATE, RECIRCULATION            |          | 90518  | CERAMIC  | 90518       | CERAMIC     | 90518       | CERAMIC  | 15     |
|               | # WEAR PLATE, RECIRCULATION            |          | 90519  | PEEK     | 90519       | PEEK        | 90519       | PEEK     | 15     |
| W             | DRIVEN MAGNET ASSY (WELDED)            | 1        | 99666  | 316 SS   | 99667       | ALLOY C     | 99668       | ALLOY 20 | 24     |
| 1000          | # IDLER SHAFT, 1" DIA                  | 1        | NG070021-316   | 316 SS   |             |             |             |          |        |
| HF            | # GEAR, IDLER, 1" DIA                  | 1        | NG010026-PK1   | 316 SS   |             |             |             | 200      | -      |
|               | # BEARING, SLTD DRV/IDL SHAFT, 1"      | 4        | 90437  | EWCBN    |             |             |             |          |        |

\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M  $\,$ # DENOTES RECOMMENDED SPARE PART

DWG: GM16P200

# **ISOCHEM GM16 SERIES PUMP** CONSOLIDATED B / M

SECTION: MODEL GM16 PAGE: DATE REV.: SUPERSEDES: 10 / 17 / 14 11 / 12 / 12

|               |   |          |     |             |             |             |            | SUPERSEDES:  | 11/12/12   | _      |
|---------------|---|----------|-----|-------------|-------------|-------------|------------|--------------|------------|--------|
|               |   |          |     |             |             | STANDARD PU |            |              |            | ]      |
|               |   |          |     |             | J)          |             | OY C<br>√) | ALLO<br>(V   |            |        |
|               | DESCRIPTION                                     |          | QTY | PART NUMBER | MATERIAL    | PART NUMBER | MATERIAL   | PART NUMBER  | MATERIAL   | ITEM   |
| POSITION 4 &  | 5 DRIVE AND IDLER GEAR MATERIAL                 |          |     |             |             |             |            |              |            |        |
| A             | # GEAR, DRIVE/IDLER                             | 1"       | 1-2 | 90668       | 316 SS      |             |            |              |            | 6, 7   |
| C             | # GEAR, DRIVE/IDLER                             | 1"       | 1-2 | 90667       | ALLOY C     | 90667       | ALLOY C    | 90667        | ALLOY C    | 6.7    |
| K             | # GEAR, IDLER                                   | 3/4"     | +   | 90676       | CARBON      | 90676       | CARBON     | 90676        | CARBON     | 7      |
| Т             | # GEAR, IDLER                                   | 3/4"     | 0-1 | 90670       | TFE (GF)    | 90670       | TFE (GF)   | 90670        | TFE (GF)   | 7      |
| E             | # GEAR, IDLER                                   | 3/4"     | 1   | 90678       | PEEK        | 90678       | PEEK       | 90678        | PEEK       | 7      |
| DOCITION C    | MEAD DIATE MATERIAL                             |          |     |             |             |             |            |              |            |        |
| POSITION 6    | # WEAR PLATE MATERIAL # WEAR PLATE, SLOTTED     |          | T   | 90503       | CARBON      | 90503       | CARBON     | 90503        | CARBON     | 15     |
| T             | # WEAR PLATE, SLOTTED                           |          | -   | 90510       | TFE (GF)    | 90510       | TFE (GF)   | 90510        | TFE (GF)   | 15     |
| Z             | # WEAR PLATE, SLOTTED                           |          | 4   | 90512       | CERAMIC     | 90512       | CERAMIC    | 90512        | CERAMIC    | 15     |
| E             | # WEAR PLATE, SLOTTED                           |          | ┨   | 90515       | PEEK        | 90515       | PEEK       | 90515        | PEEK       | 15     |
|               | # WEART BATE, SECTIED                           |          |     | 50515       | TEEK        | 30313       | TEEK       | 30313        | TEEK       | 1 13   |
| POSITION 7    | SHAFT AND BEARING MATERIAL                      |          |     |             |             |             |            |              |            |        |
|               | ONSTRUCTION                                     |          |     |             |             |             |            |              |            |        |
|               | # BEARING, DRIVE/IDLER SHAFT                    | 1"       | 4   | 90437       | EWCBN       | 90437       | EWCBN      | 90437        | EWCBN      | 12, 13 |
|               | # SHAFT, DRIVE                                  |          | 1   | 90379       | 316 SS      | 90380       | ALLOY C    | 90381        | ALLOY 20   | 4      |
|               | # SHAFT, IDLER (METAL GEAR)                     | 1"       | 1   | 90349       | 316 SS      | 90351       | ALLOY C    | 90350        | ALLOY 20   | 5      |
| L             | IDLER SHAFT ASSEMBLY                            | 3/4"     | 7 t |             |             |             |            |              |            |        |
|               | SHAFT, SLEEVED IDLER                            |          | 1   | 99672       | 316 SS      | 99673       | ALLOY C    | 99674        | ALLOY 20   | 5      |
|               | # SLEEVE, SHAFT                                 | 1"       | 2   | 90391       | 316 SS      | 90392       | ALLOY C    | 90393        | ALLOY 20   | 42     |
|               | # SCREW, SLEEVE                                 |          | 2   | W770021-316 | 316 SS      | W770021-HC0 | ALLOY C    | W770021-020  | ALLOY 20   | 43     |
|               | # BEARING, DRIVE/IDLER SHAFT                    | 1"       | 4   | 90428       | TFE (GF)    | 90428       | TFE (GF)   | 90428        | TFE (GF)   | 12, 13 |
|               | # SHAFT, DRIVE                                  |          | 1   | 90379       | 316 SS      | 90380       | ALLOY C    | 90381        | ALLOY 20   | 4      |
|               | # SHAFT, IDLER (METAL GEAR)                     | 1"       | 1   | 90349       | 316 SS      | 90351       | ALLOY C    | 90350        | ALLOY 20   | 5      |
| Т             | IDLER SHAFT ASSEMBLY                            | 3/4"     | 7 1 |             |             |             |            |              |            |        |
|               | SHAFT, SLEEVED IDLER                            |          | 1   | 99672       | 316 SS      | 99673       | ALLOY C    | 99674        | ALLOY 20   | 5      |
|               | # SLEEVE, SHAFT                                 | 1"       | 2   | 90391       | 316 SS      | 90392       | ALLOY C    | 90393        | ALLOY 20   | 42     |
|               | # SCREW, SLEEVE                                 |          | 2   | W770021-316 | 316 SS      | W770021-HC0 | ALLOY C    | W770021-020  | ALLOY 20   | 43     |
|               | # BEARING, SLTD DRV/IDL                         | 1"       | 4   | 90441       | EWCBN       | 90441       | EWCBN      | 90441        | EWCBN      | 12, 13 |
|               | # SHAFT, DRIVE                                  |          | 1   | 90379       | 316 SS      | 90380       | ALLOY C    | 90381        | ALLOY 20   | 4      |
|               | # SHAFT, IDLER (METAL GEAR)                     | 1"       | - 1 | 90349       | 316 SS      | 90351       | ALLOY C    | 90350        | ALLOY 20   | 5      |
| 4             | IDLER SHAFT ASSEMBLY                            | 3/4"     |     |             |             |             |            |              |            |        |
|               | SHAFT, SLEEVED IDLER                            |          | 1   | 99672       | 316 SS      | 99673       | ALLOY C    | 99674        | ALLOY 20   | 5      |
|               | # SLEEVE, SHAFT                                 | 1"       | 2   | 90391       | 316 SS      | 90392       | ALLOY C    | 90393        | ALLOY 20   | 42     |
|               | # SCREW, SLEEVE                                 |          | 2   | W770021-316 | 316 SS      | W770021-HC0 | ALLOY C    | W770021-020  | ALLOY 20   | 43     |
| EVITALBED A.C | TAR ROTH CHAFTS                                 |          |     |             |             |             |            |              |            |        |
| EXTENDED/W    | EAR - BOTH SHAFTS                               | 1"       | T 4 | 90437       | EWCBN       | 90437       | EWCBN      | 90437        | EWCBN      | 12, 13 |
|               | # BEARING, DRIVE/IDLER SHAFT<br># SHAFT, DRIVE  | 1        | 1   | 90437       | CW / 316 SS | 90437       | CM \ ATA C | 90437        | CM / ALY20 | 12, 13 |
|               | # SHAFT, DRIVE<br># SHAFT, IDLER (METALIC GEAR) | 1"       | 1   | 90382       | CW / 316 SS | 90386       | CW / ALY C | 90384        | CW / ALY20 | 5      |
| С             | IDLER SHAFT ASSEMBLY                            | 3/4"     | 1   | 90565       |             | 30360       |            | 90567        | CW / ALIZU |        |
|               | SHAFT, SLEEVED IDLER                            | 3/4      | 1   | 99672       | 316 SS      | 99673       | ALLOY C    | 99674        | ALLOY 20   | 5      |
|               | # SLEEVE, SHAFT                                 | 1"       | 2   | 90394       | CW / 316 SS | 90395       | CW / ALY C | 90396        | CW / ALY20 | 42     |
|               | # SCREW, SLEEVE                                 |          | 2   | W770021-316 | 316 SS      | W770021-HC0 | ALLOY C    | W770021-020  | ALLOY 20   | 43     |
|               | A G GALLEY, GLEEVE                              |          | 1 - | ,,0021 510  | 31033       | , 00211100  | ALLOT      | 27770021 020 | ALLOTZO    | 1 77   |
| CORROSION/\   | WEAR ("CW") - BOTH SHAFTS                       |          |     |             |             |             |            |              |            |        |
| · ·           | # BEARING, DRIVE/IDLER SHAFT                    | 1"       | 4   | 90439       | SICBD       | 90439       | SICBD      | 90439        | SICBD      | 12, 13 |
|               | # SHAFT, DRIVE                                  |          | 1   | 90382       | CW / 316 SS | 90383       | CW / ALY C | 90384        | CW / ALY20 | 4      |
|               | # SHAFT, IDLER (METALIC GEAR)                   | 1"       | 1   | 90385       | CW / 316 SS | 90386       | CW / ALY C | 90387        | CW / ALY20 | 5      |
| В             | IDLER SHAFT ASSEMBLY                            | 3/4"     | 1   |             |             |             |            |              |            |        |
|               | SHAFT, SLEEVED IDLER                            | <u> </u> | 1   | 99672       | 316 SS      | 99673       | ALLOY C    | 99674        | ALLOY 20   | 5      |
|               | # SLEEVE, SHAFT                                 | 1"       | 2   | 90394       | CW / 316 SS | 90395       | CW / ALY C | 90396        | CW / ALY20 | 42     |
|               | # SCREW, SLEEVE                                 |          | 2   | W770021-316 | 316 SS      | W770021-HC0 | ALLOY C    | W770021-020  | ALLOY 20   | 43     |

\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

DWG: GM16P201

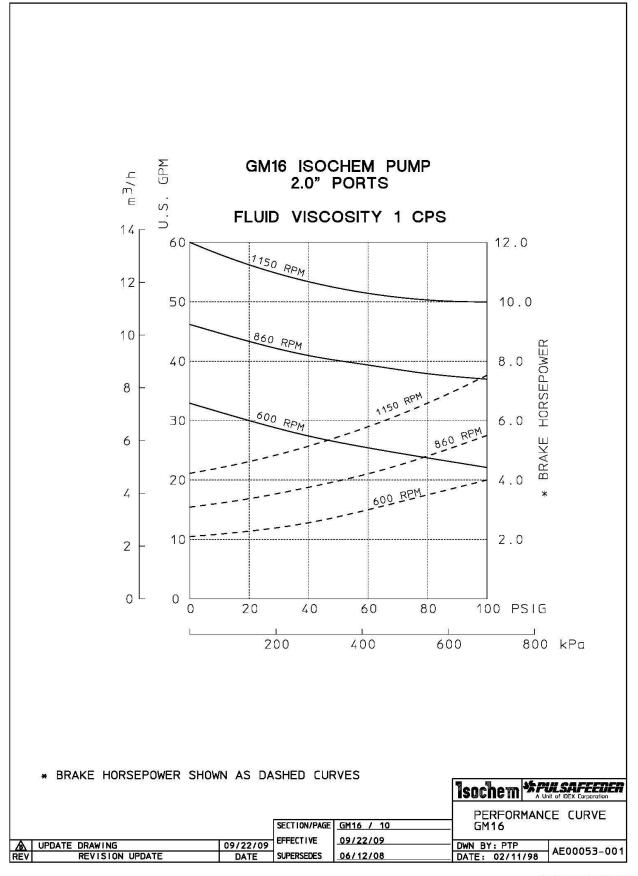
# ISOCHEM GM16 SERIES PUMP CONSOLIDATED B / M

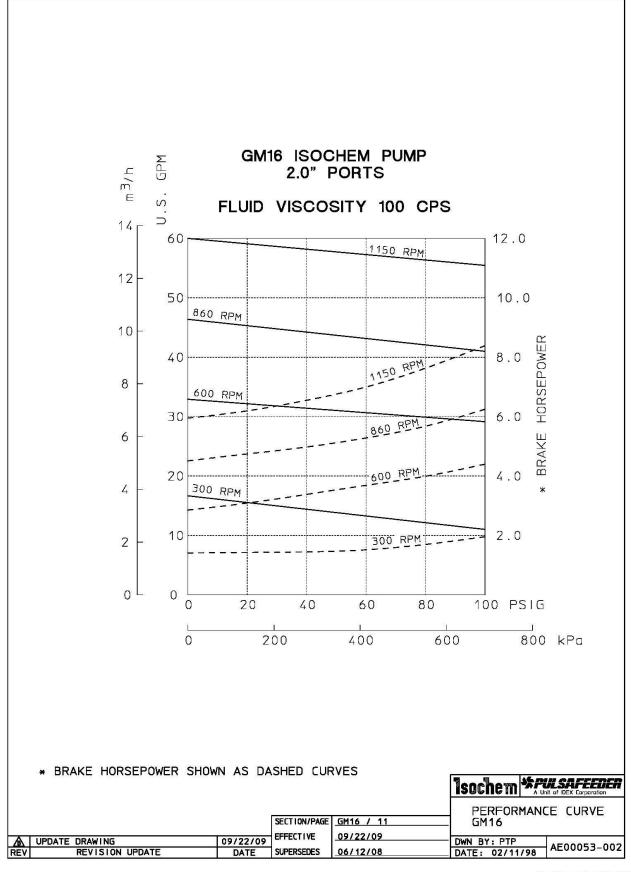
SECTION: MODEL GM16
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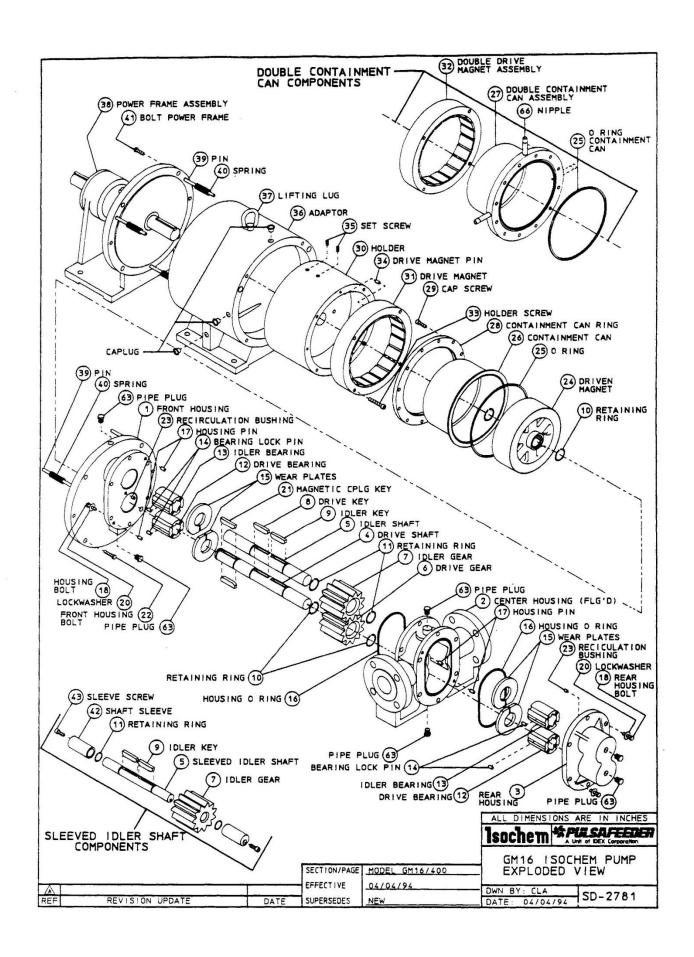
|  |  |   |  |   | STANDARD PUN   | III IVIDATEINIDAE   |  |  |   |
|--|--|---|--|---|--|---|--|--|---|
|  |  |   | 316<br>(U  |   | ALLO'<br>(V)   |   | 70/20/03/03/03/03/03/03/03/03/03/03/03/03/03   |  |   |
|  | DESCRIPTION  | QTY                                     | PART NUMBER  | MATERIAL  | PART NUMBER  | MATERIAL  | PART NUMBER  | MATERIAL   | ITEN  |
| OSITION 8                                | MAGNETIC COUPLING COMPONENTS   |   |  |   |  |   |  |  |   |
|  | DRIVEN MAGNET ASSY   | 1                                       | 99651  | 316 SS  | 99652  | ALLOY C   | 99653  | ALLOY 20   | 24  |
|  | BOLT, FRONT HOUSING/ADAPTOR  | *4                                      | W770426-188  | 188 SS  | W770426-188  | 188 SS  | W770426-188  | 188 SS   | 22  |
|  | # O-RING, CONTAINMENT CAN  | *1                                      | W212172-TFE  | TFE   | W212172-TFE  | TFE   | W212172-TFE  | TFE  | 25  |
|  | SCREW, SET   | 2                                       | W771004-030  | STL   | W771004-030  | STL   | W771004-030  | STL  | 35  |
|  | PIN, DRIVE MAGNET/HOLDER   | 4                                       | W771209-003  | STL   | W771209-003  | STL   | W771209-003  | STL  | 34  |
|  | SCREW, SKHD DRIVE MAGNET/HOLDER  | 4                                       | W770027-188  | 188 SS  | W770027-188  | 188 SS  | W770027-188  | 188 SS   | 33  |
| COMMON                                   | CAN, CONTAINMENT   | 1                                       | 99600  | ALLOY C   | 99600  | ALLOY C   | 99600  | ALLOY C  | 26  |
| PARTS                                    | SCREW, CONTAINMENT CAN RING  | 12                                      | W770021-188  | 188 SS  | W770021-188  | 188 SS  | W770021-188  | 188 SS   | 29  |
|  | HOLDER, DRIVE MAGNET   | 1                                       | 99640  | STL   | 99640  | STL   | 99640  | STL  | 30  |
|  | ADAPTOR, POWERFRAME  | 1                                       | 99619  | ALU   | 99619  | ALU   | 99619  | ALU  | 36  |
|  | LUG, LIFTING   | 1                                       | W212304-STL  | STL   | W212304-STL  | STL   | W212304-STL  | STL  | 3   |
|  | PIN  | 6                                       | 99641  | 188 SS  | 99641  | 188 SS  | 99641  | 26-188 188 SS 72-TFE TFE 04-030 STL 09-003 STL 27-188 188 SS 600 ALLOY C 21-188 188 SS 540 STL 519 ALU 04-STL STL 541 188 SS 542 188 SS 542 188 SS 548 STL 536 STL | 39  |
|  | SPRING   | 6                                       | 99642  | 188 SS  | 99642  | 188 SS  | 99642  |  | 40  |
|  | BOLT, POWERFRAME ADAPTOR   | *4                                      | W770426-188  | 188 SS  | W770426-188  | 188 SS  | W770426-188  | 188 SS   | 4:  |
|  | S. MOUNTING INMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT  | 1                                       | 99648  | STL   | 99648  | STL   | 99648  | STL  | 3   |
| NGLE CONTA                               | NIMMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT   |   |  |   |  |   |  | 7940 0000  | -   |
|  | INMENT CAN COMPONENTS  | 1<br>1<br>1                             | 99648<br>99636<br>99630  | STL<br>STL<br>316 SS  | 99648<br>99636<br>99630  | STL<br>STL<br>316 SS  | 99648<br>99636<br>99630  | 7940 0000  | 3:  |
| <b>NGLE CONTA</b><br>R                   | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  | 1                                       | 99636  | STL   | 99636  | STL   | 99636  | STL  | 3:  |
| <b>NGLE CONTA</b><br>R                   | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  | 1                                       | 99636<br>99630   | STL<br>316 SS   | 99636<br>99630   | STL<br>316 SS   | 99636<br>99630   | STL<br>316 SS  | 3:  |
| <b>NGLE CONTA</b><br>R                   | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT  | 1 1                                     | 99636<br>99630<br>99648  | STL<br>316 SS   | 99636<br>99630<br>99648  | STL<br>316 SS   | 99636<br>99630<br>99648  | STL<br>316 SS  | 3: 28   |
| <b>NGLE CONTA</b><br>R                   | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY  | 1 1 1                                   | 99636<br>99630<br>99648<br>99639   | STL<br>316 SS<br>STL<br>STL   | 99636<br>99630<br>99648<br>99639   | STL<br>316 SS<br>STL<br>STL   | 99636<br>99630<br>99648<br>99639   | STL<br>316 SS<br>STL<br>STL  | 31<br>28<br>38<br>32  |
| R R OUBLE CONT                           | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT  | 1 1                                     | 99636<br>99630<br>99648<br>99639<br>99631  | STL<br>316 SS<br>STL<br>STL<br>316 SS   | 99636<br>99630<br>99648<br>99639<br>99632  | STL 316 SS  STL STL ALLOY C   | 99636<br>99630<br>99648<br>99639<br>99633  | STL 316 SS  STL STL ALLOY 20   | 3:<br>2:<br>3:<br>3:<br>2:  |
| R R OUBLE CONT                           | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY  | 1 1 1 1 1                               | 99636<br>99630<br>99648<br>99639   | STL<br>316 SS<br>STL<br>STL   | 99636<br>99630<br>99648<br>99639   | STL<br>316 SS<br>STL<br>STL   | 99636<br>99630<br>99648<br>99639   | STL<br>316 SS<br>STL<br>STL  | 3;<br>3;<br>3;<br>2;<br>2;  |
| R OUBLE CONT T                           | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT CAN ASSY   | 1 | 99636<br>99630<br>99648<br>99639<br>99631<br>W212172-TFE   | STL<br>316 SS<br>STL<br>STL<br>316 SS<br>TFE  | 99636<br>99630<br>99648<br>99639<br>99632<br>W212172-TFE   | STL 316 SS  STL STL ALLOY C TFE   | 99636<br>99630<br>99648<br>99639<br>99633<br>W212172-TFE   | STL<br>316 SS<br>STL<br>STL<br>ALLOY 20<br>TFE   | 31<br>28<br>38<br>32<br>27<br>25                                      |
| R OUBLE CONT T                           | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT # O RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00   | 1 | 99636<br>99630<br>99648<br>99639<br>99631<br>W212172-TFE   | STL<br>316 SS<br>STL<br>STL<br>316 SS<br>TFE  | 99636<br>99630<br>99648<br>99639<br>99632<br>W212172-TFE   | STL 316 SS  STL STL ALLOY C TFE   | 99636<br>99630<br>99648<br>99639<br>99633<br>W212172-TFE   | STL<br>316 SS<br>STL<br>STL<br>ALLOY 20<br>TFE   | 31<br>28<br>32<br>32<br>27<br>25<br>66                                |
| R OUBLE CONT T                           | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00  ETRIC MOUNTING INMENT CAN COMPONENTS   | 1<br>1<br>1<br>1<br>1<br>1<br>*1<br>2   | 99636<br>99630<br>99648<br>99639<br>99631<br>W212172-TFE<br>W773965-208                            | STL<br>316 SS<br>STL<br>STL<br>316 SS<br>TFE<br>316 SS                                    | 99636<br>99630<br>99648<br>99639<br>99632<br>W212172-TFE<br>W773965-235                            | STL<br>316 SS<br>STL<br>STL<br>ALLOY C<br>TFE<br>ALLOY C                        | 99636<br>99630<br>99648<br>99639<br>99633<br>W212172-TFE<br>W773965-020  | STL 316 SS  STL STL ALLOY 20 TFE ALLOY 20  | 31<br>28<br>38<br>32<br>27<br>25<br>66                                |
| R OUBLE CONT  T  ANDARD ME NGLE CONTA    | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00  ETRIC MOUNTING INMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT   | 1 1 1 1 1 1 1 1 2 2 1 1 1               | 99636<br>99630<br>99648<br>99639<br>99631<br>W212172-TFE<br>W773965-208                            | STL<br>316 SS<br>STL<br>STL<br>316 SS<br>TFE<br>316 SS                                    | 99636<br>99630<br>99648<br>99639<br>99632<br>W212172-TFE<br>W773965-235                            | STL 316 SS  STL STL ALLOY C TFE ALLOY C   | 99636<br>99630<br>99648<br>99639<br>99633<br>W212172-TFE<br>W773965-020  | STL 316 SS  STL STL ALLOY 20 TFE ALLOY 20  | 32<br>28<br>38<br>32<br>27<br>25<br>66                                |
| R OUBLE CONT  T TANDARD ME NGLE CONTA    | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00  ETRIC MOUNTING INMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY   | 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 | 99636<br>99630<br>99630<br>99648<br>99639<br>99631<br>W212172-TFE<br>W773965-208                   | STL<br>316 SS<br>STL<br>STL<br>316 SS<br>TFE<br>316 SS<br>STL<br>STL                      | 99636<br>99630<br>99648<br>99639<br>99632<br>W212172-TFE<br>W773965-235                            | STL 316 SS  STL STL ALLOY C TFE ALLOY C STL STL STL STL                         | 99636<br>99630<br>99648<br>99639<br>99633<br>W212172-TFE<br>W773965-020  | STL 316 SS  STL STL ALLOY 20 TFE ALLOY 20 STL STL STL STL  | 31<br>28<br>32<br>27<br>25<br>66                                      |
| R  OUBLE CONT  T  CANDARD ME  NGLE CONTA | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY  CAN ASSY, CONTAINMENT # O RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00  ETRIC MOUNTING INMENT CAN COMPONENTS  POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00   | 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 | 99636<br>99630<br>99630<br>99648<br>99639<br>99631<br>W212172-TFE<br>W773965-208                   | STL<br>316 SS<br>STL<br>STL<br>316 SS<br>TFE<br>316 SS<br>STL<br>STL                      | 99636<br>99630<br>99648<br>99639<br>99632<br>W212172-TFE<br>W773965-235                            | STL 316 SS  STL STL ALLOY C TFE ALLOY C STL STL STL STL                         | 99636<br>99630<br>99648<br>99639<br>99633<br>W212172-TFE<br>W773965-020  | STL 316 SS  STL STL ALLOY 20 TFE ALLOY 20 STL STL STL STL  | 388<br>388<br>3227<br>25<br>666                                       |
| R OUBLE CONT  T TANDARD ME NGLE CONTA    | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00  ETRIC MOUNTING INMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN AINMENT CAN COMPONENTS RING, CONTAINMENT CAN AINMENT CAN COMPONENTS   | 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 | 99636<br>99630<br>99648<br>99639<br>99631<br>W212172-TFE<br>W773965-208                            | STL<br>316 SS<br>STL<br>STL<br>316 SS<br>TFE<br>316 SS<br>STL<br>STL<br>STL<br>STL<br>STL | 99636<br>99630<br>99648<br>99639<br>99632<br>W212172-TFE<br>W773965-235<br>99649<br>99636<br>99630 | STL 316 SS  STL STL ALLOY C TEE ALLOY C  STL STL 316 SS                         | 99636<br>99630<br>99648<br>99639<br>99633<br>W212172-TFE<br>W773965-020<br>99649<br>99636<br>99630   | STL 316 SS  STL STL ALLOY 20 TFE ALLOY 20  STL STL 316 SS  | 388<br>3228<br>3227<br>255<br>666<br>388<br>3227<br>255<br>388<br>328 |
| R OUBLE CONT  T TANDARD ME NGLE CONTA    | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00  ETRIC MOUNTING INMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ24 MM INPUT SHAFT | 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 | 99636<br>99630<br>99630<br>99639<br>99631<br>W212172-TFE<br>W773965-208<br>99649<br>99636<br>99630 | STL 316 SS STL STL STL STL STL STL STL STL STL  | 99636<br>99630<br>99648<br>99639<br>99632<br>W212172-TFE<br>W773965-235<br>99649<br>99636<br>99630 | STL 316 SS  STL STL ALLOY C TFE ALLOY C  STL STL STL STL STL STL STL STL STL ST | ALLOY 20 (W)  AL PART NUMBER MATERIA  C 99653 ALLOY 20 (W)  W770426-188 188 SS W212172-TFE TFE W771004-030 STL W771209-003 STL W770027-188 188 SS C 99600 ALLOY C W770021-188 188 SS 99640 STL 99619 ALU W212304-STL STL 99641 188 SS W770426-188 188 SS W770426-188 188 SS W770426-188 188 SS W770426-188 188 SS W770426-188 188 SS W770426-188 STL 99630 316 SS  99648 STL 99639 STL W212172-TFE TFE W773965-020 ALLOY 20 99649 STL 99639 STL 99630 316 SS | STL 316 SS  STL STL ALLOY 20 TFE ALLOY 20  STL STL STL STL STL STL STL STL STL ST  | 388 388 388 388 388 388 388 388 388 388                               |
| R OUBLE CONT  T TANDARD ME NGLE CONTA    | POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS  POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00  ETRIC MOUNTING INMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN  AINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY  AINMENT CAN COMPONENTS POWERFRAME µ24 MM INPUT SHAFT DRIVE MAGNET ASSY    | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | 99636<br>99630<br>99630<br>99639<br>99631<br>W212172-TFE<br>W773965-208<br>99649<br>99636<br>99630 | STL 316 SS STL 316 SS STL STL STL STL STL STL STL STL STL                                 | 99636<br>99630<br>99648<br>99639<br>99632<br>W212172-TFE<br>W773965-235<br>99649<br>99636<br>99630 | STL 316 SS  STL STL ALLOY C TFE ALLOY C STL STL STL STL STL STL STL STL STL STL | 99636<br>99630<br>99648<br>99639<br>99633<br>W212172-TFE<br>W773965-020<br>99649<br>99636<br>99630   | STL 316 SS  STL STL ALLOY 20 TFE ALLOY 20  STL STL STL STL STL STL STL STL STL   | 388 388 388 388 388 388 388 388 388 388                               |

<sup>\*</sup>COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

DWG: GM16P202







SECTION: DRIVES PAGE: 120 DATE REV.: 12/02/94 SUPERSEDES: 04/04/94

|        | DESCRIPTION                      | QTY        | PART NUMBER  | MATERIAL  | ITEM |
|--------|----------------------------------|------------|--------------|-----------|------|
|        | PIPE PLUG                        | 1          | W772565-STL  | STEEL     | 13   |
|        | OIL CUP                          | 1          | A53801       | STEEL     | 12   |
|        | AIR VENT                         | 1          | 27219        | STEEL     | 11   |
|        | SHIM PACKAGE                     | * 1        | Y1300700-PAK | PLASTIC   | 8    |
| COMMON | 0-RING                           | * 1        | W209789-NTR  | NITRILE   | 7    |
| COMMON | OIL SEAL                         | * 2        | Y1501100-000 | STL/NTR   | 6    |
| PARTS  | .25 LOCK WASHER                  | 4          | W771117-STL  | STEEL     | 5    |
|        | .25-20 X .75 HEX HD BOLT         | 4          | W770402-STL  | STEEL     | 4    |
|        | .19 X 1.38 SQUARE KEY            | 1          | W773098-010  | STEEL     | 14   |
|        | BEARING CAP                      | 1          | Y1700200-000 | STEEL     | 3    |
|        | POWER FRAME                      | 1          | Y0400500-IRN | CAST IRON | 1    |
| .625 D | A. OUTPUT SHAFT FOR UP TO 3 H.P. | INPU       | Т            |           |      |
| SUFFIX | DRIVE SHAFT                      | 1          | Y0701600-000 | STEEL     | 2    |
| -000   | BEARING, SINGLE ROW              | * 2        | Y0800800-000 | STEEL     | 9    |
| .875 D | A. OUTPUT SHAFT FOR UP TO 5 H.P. | INPU       | Т            |           |      |
| SUFFIX | DRIVE SHAFT                      | 1          | Y0701800-000 | STEEL     | 2    |
| -001   | BEARING, SINGLE ROW              | * 2        | Y0800800-000 | STEEL     | 9    |
| .875 D | A. OUTPUT SHAFT FOR UP TO 10 H.P | . INP      | UT           |           |      |
| OUEELY | DRIVE SHAFT                      | 1          | Y0701500-000 | STEEL     | 2    |
| SUFFIX | BEARING, SINGLE ROW              | <b>*</b> 1 | Y0800800-000 | STEEL     | 9    |
| -002   | BEARING, DOUBLE ROW              | * 1        | Y0800700-000 | STEEL     | 10   |
| .875 D | A. OUTPUT SHAFT FOR UP TO 20 H.P | . INP      | UT           |           |      |
| SUFFIX | DRIVE SHAFT                      | 1          | Y0701700-000 | STEEL     | 2    |
| -003   | BEARING, DOUBLE ROW              | * 2        | Y0800700-000 | STEEL     | 10   |

\* DENOTES RECOMMENDED SPARE PARTS

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#### GENERAL MAINTENANCE:

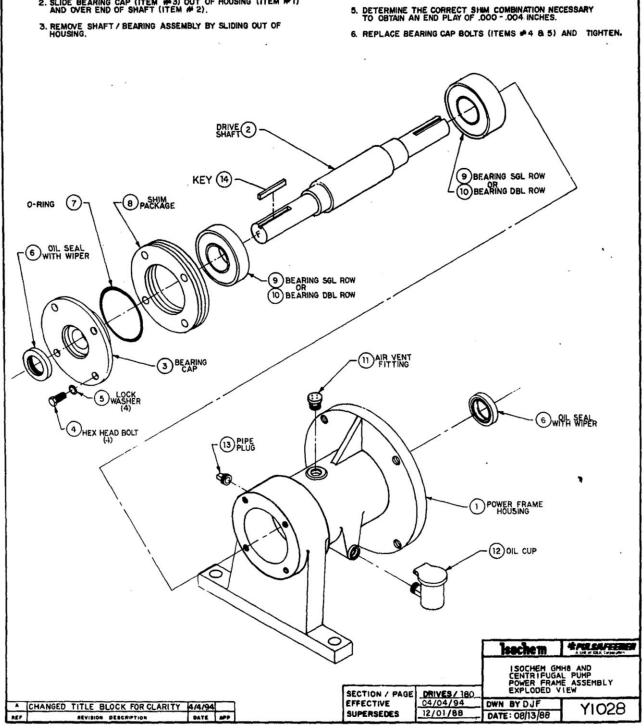
- 1. FILL POWER FRAME OIL CUP (ITEM # 12) TO THE "OIL LEVEL"
  LINE, ABOUT 1/2 INCH FROM THE TOP OF THE CUP. USE
  STANDARD MOTOR OIL SAE 10W-40, 10W-30 OR 5W-30.
- 2. DRAIN AND CHANGE OIL AFTER EVERY 1000 HRS. OF OPERATION. SOONER IF WATER OR OTHER CONTAMINATION OCCURS.

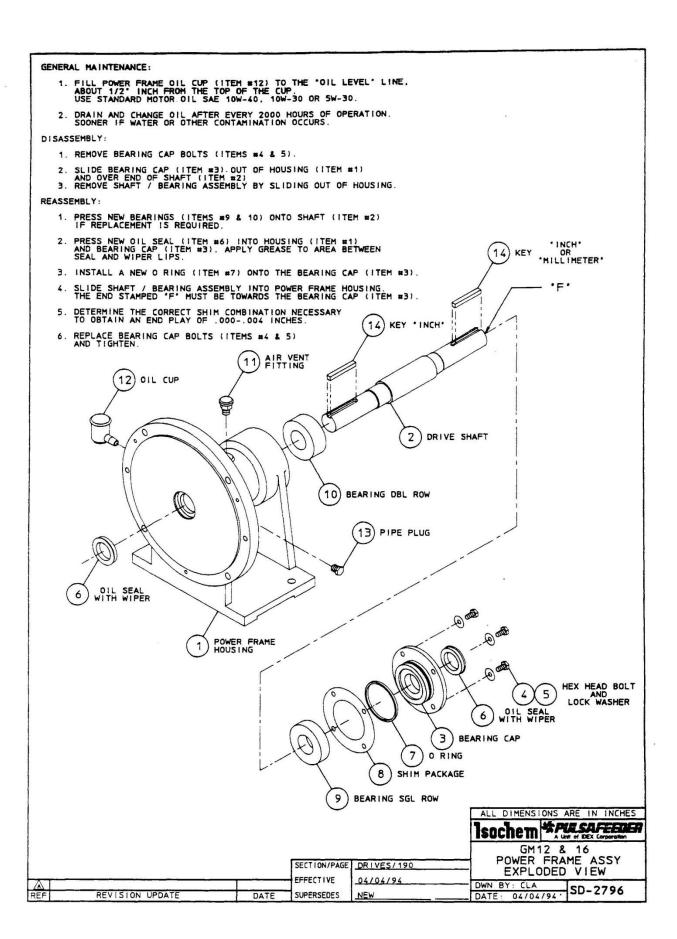
#### DISASSEMBLY

- 1. REMOVE BEARING CAP BOLTS (ITEMS #4 & 5)
- 2. SLIDE BEARING CAP (ITEM #3) OUT OF HOUSING (ITEM #1) AND OVER END OF SHAFT (ITEM #2).

#### REASSEMBLY:

- I. PRESS NEW BEARINGS (ITEMS #9 & 10) ONTO SHAFT (ITEM #2) IF REPLACEMENT IS REQUIRED.
- 2. PRESS NEW OIL SEALS (ITEM #6) INTO HOUSING (ITEM #1) AND BEARING CAP (ITEM #3), APPLY GREASE TO AREA BETWEEN THE SEAL AND WIPER LIPS.
- 3, INSTALL A NEW O-RING (ITEM #7) ONTO THE BEARING CAP.
- 4. SLIDE SHAFT / BEARING ASSEMBLY INTO POWERFRAME HOUSING. THE END STAMPED "F" MUST BE TOWARDS THE BEARING CAP.





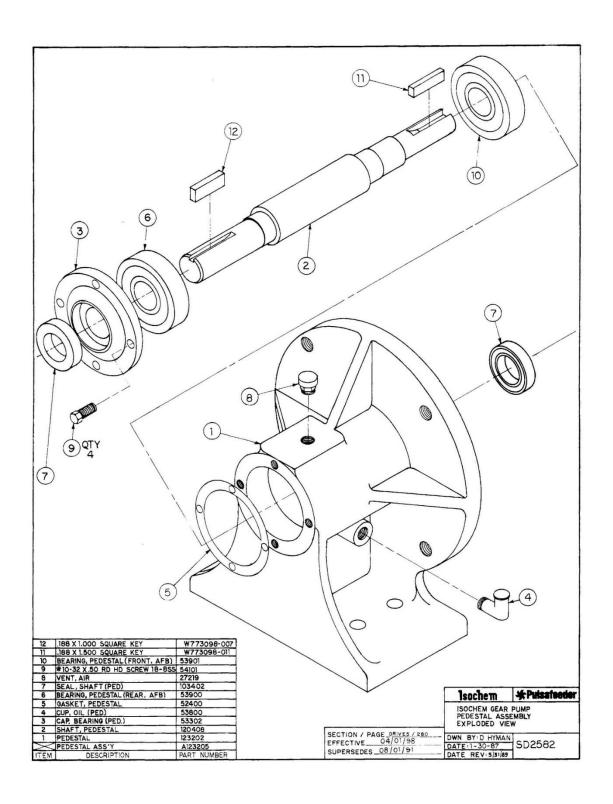
#### ISOCHEM GEAR POWER FRAME ASSEMBLY COMPOSITE BILL OF MATERIALS FOR 99648 AND 99649 (METRIC)

SECTION: DRIVES PAGE: 191 DATE REV.: 12/02/94 SUPERSEDES: 04/04/94

| DESCRIPTION                     | QTY   | PART No.     | MATERIAL | ITEM |
|---------------------------------|-------|--------------|----------|------|
| HOUSING, POWER FRAME            | 1     | 99620        | IRON     | 1    |
| SHAFT, POWER FRAME Ø1.125 INPUT | 1     | 99646        | STL      | 2    |
| SHAFT, POWER FRAME Ø28 MM INPUT |       | 99647        | STL      | 2    |
| KEY, STANDARD                   | 1-2   | W773099-015  | STL      | 14   |
| KEY, METRIC                     | 0 - 1 | W773107-000  | STL      | 14   |
| CAP, BEARING                    | 1     | 99645        | STL      | 3    |
| BOLT, BEARING CAP               | 4     | W770402-STL  | STL      | 4    |
| LOCK WASHER, BOLT               | 4     | W771117-STL  | STL      | 5    |
| +SEAL, LIP                      | 2     | 99644        | NTR      | 6    |
| +O RING                         | 1     | W209789-NTR  | NTR      | 7    |
| +SHIM PACKAGE                   | 1     | Y1300700-PAK | PLSTC    | 8    |
| +BEARING, SINGLE                | 1     | Y0800800-000 | STL      | 9    |
| +BEARING, DOUBLE                | 1     | Y0800700-000 | STL      | 10   |
| AIR VENT                        | 1     | 27219        | STL      | 11   |
| OIL CUP                         | 1     | A53801       | STL      | 12   |
| PIPE PLUG                       | 1     | W772565-STL  | STL      | 13   |

<sup>+</sup> DENOTES RECOMMENDED SPARE PART.

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# Isochem® GEARCHEM PUMPS

Bulletin No. IOM-ISO-4000-Rev E



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