

Installation, Operation & Maintenance Instruction

All Models





Bulletin No. IOM-ISO-4000-Rev C



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 Installation, Operation and Maintenance Manual.

Can harm cell phones and/or credit cards.

For more information on handling instructions contact:



Pulsafeeder, Inc. 2883 Brighton Henrietta Town Line Rd. Rochester, NY 14623 1-585-292-8000

TABLE OF CONTENTS

PAGE

INTRODUCTION
EQUIPMENT INSPECTION
INSTALLATION
OPERATION
MAINTENANCE
PUMP DISASSEMBLY & REASSEMBLY
THERMAL JACKET INSTALLATION & REMOVAL
DISASSEMBLY & REASSEMBLY – PEDESTAL
TROUBLESHOOTING
PUMP SPECIFICATION CHART
EXPLODED VIEW DRAWING
GMH8 SERIES
GMC12 SERIES
GMC16 SERIES
PEDESTALS
SIGNIFICANT MODEL NUMBERING SYSTEM TABLE
CONSOLIDATED BILL OF MATERIALS
GMCH8 SERIES
GMC12 SERIES
GMC16 SERIES
PUMP PERFORMANCE CURVES
PUMP MODEL#
PUMP SERIAL #

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, selfpriming, 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)

- 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.

- 4. 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.
- 6. 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 air tight.
- 8. Flush and blow out all suction lines prior to mating up to pump. Use nipples and unions, for ease of maintenance.



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.
- 10. 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.
- 12. 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.
- 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 air tight 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.
- 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.
- 3. 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 than1450 RPM.
- 4. 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).

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 wrist watch 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.



- 5. Caution. Do not machine the magnets in the drive or driven magnet assemblies. The dust that would be produced is highly inflammable.
- 6. 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.
- 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 motor bolts (Item 25). Metric motors use an extra motor adaptor (Item 29) and require that the adaptor bolts (Item 30) be removed first.
- 5. 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.
- 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.
- 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 (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.
- 2. With the housing pins (Item 13) in the locator holes in the front housing (Item 3) and new O-rings (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.
- 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).
- 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). These setscrews have a special nylon patch applied to the threads to prevent loosening.
- 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.



(NEMA Motors Only)

 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).
- 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.
- 5. 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).
- 10. 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.
- 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).
- 3. 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 Ibs. (847 Ncm). These setscrews have a special nylon patch applied to the threads to prevent loosening.
- 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.
- 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 wearplates (Item 15) are now accessible and can readily be removed along with the drive and idler shafts (Items 4, 5).
- 10. The gears can be removed from the shafts by removing one of the retaining rings and sliding the gear off the shaft.
- 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 wearplates 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.
- 2. With the housing pins (Item 17) in the locator holes in the front housing (Item 1) and new O-rings (Item 16) installed in the center housing (Item 2), assemble on the center housing.
- 3. Install a pair of wearplates (Item 15) and the shaft assemblies.

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

PUMP SPECIFICATION CHART

	PUMP SIZE	GMH8	GM12	GM16
	MAXIMUM FLOW @ 1750 RPM, 0 PRESSURE GPM (M ³ /HR) MAXIMUM FLOW @ 1750 RPM, 0 PRESSURE GPM (M ³ /HR) THEORETICAL DISPLACEMENT GAL/100 REV (cc/REV) MAXIMUM DIFFERENTIAL PRESSURE PSI (BARS) MAX DIFF.PRES. PLASTIC/PLASTIC GEARS PSI (BARS) MAXIMUM CASING PRESSURE PSI (BARS) TEMPERATURE RANGE : METAL/METAL GEARS METAL/METAL (ARBON GEARS METAL/ARBON GEARS	22.0 (5.0) 14.5 (3.3) 1.3687 (51.78) 100 (6.9) 100 (6.9) 150 (10.3) -100 TO +450 °F (-73 TO +232 °C)	NA 28.0 2.792 (105.7) 100 (6.9) 150 (10.3) 200 (10.3) -100 TO +450 °F (-73 TO +232 °C)	NA 55.0 (12.5) 5.584 (211) 100 (6.9) 150 (10.3) -100 TO +450 °F (-73 TO +232 °C)
(1)	METAL/PLASTIC GEARS	0 TO +210 °F (-18 TO +99 °C)	0 TO +210 °F (-18 TO +99 °C)	0 TO +210 °F (-18 TO +99 °C)
(2) (4) (4)	MAXIMUM VISCOSITY 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 MAGNETIC COUPLING TORQUE LIMIT @ 392 °F IN/LB INLET PORT SIZE NPT, BSPT, 150 LB FLG OUTLET PORT SIZE NPT, BSPT, 150 LB FLG OUTLET PORT SIZE NPT, BSPT, 150 LB FLG	500000 (100000) 500 (100) 1750 RPM 1450 RPM 389 (288) 341 (252) 1 THD 1 THD 1/8 THD	500000 (100000) 500 (100) 1150 RPM 637 (496) 558 (434) 1 1/2 THD OR FLG 1 1/2 THD OR FLG 1/4 THD	500000 (100000) 500 (100) 1150 RPM 1150 RPM 1239 (991) 1084 (872) 2 FLG 2 FLG 1/4 THD
(E)	BEARING TYPE BEARING LUBRICATION ROTATION DIRECTION MOTOR FRAME SIZES AVAILABLE STANDARD SEALING MATERIAL PUMP AND CASING H x W x L INCH PUMP AND CASING WEIGHT LBS (kg)	INTERNAL SLEEVE BY PUMPED FLUID REVERSIBLE 143/5TC.100L TEFLON 8.88%8.00×13.44 75 (165)	INTERNAL SLEEVE BY PUMPED FLUID REVERSIBLE ANY,BASE MOUNT ONLY TEFLON 12.19x10.0x24.56 190 (418)	INTERNAL SLEEVE BY PUMPED FLUID REVERSIBLE ANY.BASE MOUNT ONLY TEFLON 12.19X10.0X26.56 225 (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















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 GML = C-FACE MOTOR MOUNTING ASSEMBLY GMH = HIGHER PRESSURE MODEL, C-FACE MOTOR M		i ASSEMB	- 1 - 12 ILY - 8	.2.4 .16	<u>.</u> 6.	8		
POSITION 2 PUMP SIZE	1	z	4	6	8	*8	12	16
Port Size (INCHES) Capacity (GPM MAX) Differential Pressure (PSIG MAX) Max. Casing Pressure (PSIG MAX)	.25' .8 100 300	.25* 1.5 100 200	.50' 3 100 200	.75 10 100 150	1.00' 20 50 150	1,00° 20 100 150	1.50' 26 100 200	2.00° 55 100 200
POSITION 3 AVAILABLE PUMP METALLURGIES AND TYPE	PORT C	ONNECTI	ON					
A - 316SS FNPT B = ALLOY B FNPT C = ALLOY C FNPT D = ALLOY C FNPT F = TITANIUM FNPT F = TITANIUM FNPT K = 316SS FBSPT M = ALLOY C FBSPT M = ALLOY C FBSPT M = ALLOY C FBSPT U = 316SS FLANGED V = ALLOY C FLANGED W = ALLOY C FLANGED	****	× × × × × × × × × × × × × × × × × × ×	× ×× × ×× ××	* ** * **	× × × × × × × × × × × × × × × × × × ×	× × × × × × × × × × × × × × × × × × ×	× × × × × × × × × × × × × × × × × × ×	×××
POSITION & DRIVE GEAR MATERIAL								
C = ALLOY C D = ALLOY 20 T = TFE (Glass Filled) (1.17) E = PEEK (17) A = 316SS Q = RYTON (17)	X X X X	×××××	****	****	× × × × × ×	×	×	×
C = ALLOY C(2,12)D = ALLOY 20(2)K = Carbon(2)T = TFE (Glass Filled)(17)E = PEEK(17)A = 316SS(17)Q = RYTON(17)	x x x x x x	× × × × × × ×	*****	*****	× × × × × × ×	× × × ×	× × × ×	× ××××
POSITION 6 WEAR PLATE MATERIAL (16)								
K = Carbon T = TFE (Glass Filled) Z - Ceramic (3) E - PEEK Q - RYTON	× × ×	××××	****	****	× × × × ×	××××	****	××××
POSITION 7 BEARING MATERIAL (16)								
K = Standard Corbon (4) L - Extended Life Carbon (4) T - TFE (Glass Filled) (4) 4 - Standard Carbon - Slotted (4) C - Extended Life Carbon - 'CW' Shafts (5) B = Sillcon Carbide - 'CW' Shafts (5.6)	x x	×××	××× ××	*** **	× × × ×	****	××××	× × ×
Q - RYTON E - PEEK	X							
POSITION 8 MAG DRIVE MOUNTING ARRANGEMENT								
STANDARD U.S. MOUNTINGS B = 42C FRAME, SGL. CAN UNTNMIT. (13) C - 48C FRAME, SGL. CAN UNTNMIT. (13) F - 56C FRAME, SGL. CAN UNTNMIT. (13) O = 143TC - 184C FRAME, SGL. CAN UNTNMIT. (13) D = 143TC - 184C FRAME, SGL. CAN UNTNMIT. (13) R - 182TC - 184TC FRAME, SGL. CAN UNTNMIT. (14) T - 182TC - 184TC FRAME, DBL. CAN UNTNMIT. (14) W = 213TC - 215TC FRAME, DBL. CAN UNTNMIT. (14) Y = 213TC - 215TC FRAME, DBL. CAN UNTNMIT. (14)	X X X	××	××	××	××	****	××	××
STANDARD METRIE MOUNTINGS H = 63 FRAME, SGL. CAN (# 85.00 B.C.) (13) 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 (#100.00 B.C.) (13) P = 100 FRAME, SGL. CAN (#130.00 B.C.) (13) Q = 100 FRAME, SGL. CAN (#130.00 B.C.) (13) Q = 100 FRAME, SGL. CAN (#130.00 B.C.) (13) Q = 100 FRAME, SGL. CAN (#130.00 B.C.) (13) Q = 200 FRAME, SGL. CAN (#130.00 B.C.) (13) Q = 200 FRAME, SGL. CAN (#130.00 B.C.) (13) Q = 200 FRAME, SGL. CAN (#170.00 B.C.) (13) Q = 200 FRAME, SGL. CAN (#170.00 B.C.) (13) Q = 200 FRAME, SGL. CAN (#170.00 B.C.) (13) Q = 200 FRAME, SGL. CAN (#170.00 B.C.) (13) Q = 200 FRAME, SGL. CAN (#170.00 B.C.) (13) Q = 200 FRAME, SGL. CAN (#170.00 B.C.) (13) Q = 200 FRAME, SGL. CAN (#170.00 B.C.) (13) Q = 200 FRAME, SGL. CAN (MINNNT. (14)) V = #28 MM INPUT SHAFT, DBL. CAN CNTMNNT. (14)	x	××	××	××	××	x	×	××

(*) Higher Pressure Model.

DRAWING: GMCTAB150

						SE PA EFI SU	CTION GE: FECTI PERSE	: VE: DES:
15	SOCHEM GEAR PUMP	EX ⁻	ΓEN	DED	PF	RES	SUR	Ε
	PRESSURES A	BOVI	Ξ1	00	PS	I		
	SIGNIFICANT MODEL NUMBERING	5 SYST	EM AN	id sel	ECTI	ON TA	BLE	
	POSITION NO.: 1 2 3]	5	6 6	7 8] [10	 11
	POSITION 1 ISOCHEM MAGNETICALLY DRIVEN S	SEALLESS						
	GMC = C-FACE MOTOR MOUNTING ASSEMBL GM = C-FACE MOTOR MOUNTING ASSEMBL GMH = HIGHER PRESSURE MODEL, C-FACE	LY E motor m	IOUNT NG	ASSEMB	- 2 - 12 LY - 6	. 4.	6	
	POSITION 2 PUMP SIZE		2	**4	**6	*6	12	
	Port Size (INCHES) Capacity (GPM MAX) Differential Pressure (PSIG MAX) Max. Casing Pressure (PSIG MAX)		.25* 1.5 175 200	.50° 2.1 140 200	.75 8.0 125 150	.75* 10 200 250	1.50* 26 150 200	
	POSITION 3 AVAILABLE PUMP METALLURGIES	AND TYPE	PORT C	ONNECTI	ON			
	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		*****	****	*****	*****	*****	
	POSITION 4 DRIVE GEAR MATERIAL							
	A - 316 SS C - Alloy C D - Alloy 20		XXX	×××	×××	×	××	
	POSITION 5 IDLER GEAR MATERIAL							
	A - 316 SS C - Alloy C D - Alloy 20 E - PEEK	(2,12) (2)	××××	××××	****	x x x	×× ×	
	POSITION 6 WEAR PLATE MATERIAL							10
	K - Carbon T - TFE (Glass Filled) Z - Ceramic E - PEEK	(3)	****	****	****	××××	****	
	POSITION 7 BEARING AND SHAFT MATERIAL							
	K - Standard Carbon L - Extended Life Carbon 4 - Standard Carbon - Slatted C - Extended Life Carbon - 'CW' Shafts B - Silicon Carbide - 'CW' Shafts	(4) (4) (4) 5 (5) (5,6)	× × ×	×× ××	× × ×	× × ×	****	
	POSITION 8 MAG DRIVE MOUNTING ARRANGEME	ENT						
	STANDARD U.S. MOUNTINGS	(43)	v	U.	U.			
	 F = 30L FRAME, SGL. CAN UNINNI, CONTRAME, SGL. CAN UNINMI D = 143TC- 184C FRAME, DBL. CAN UNINMI D = 143TC- 184TC FRAME, SGL. CAN UNINMI R = 182TC- 184TC FRAME, SGL. CAN UNINMI T = 182TC- 184TC FRAME, DBL. CAN UNINMI Y = 213TC- 215TC FRAME, SGL. CAN UNINMI Y = 213TC- 215TC FRAME, DBL. CAN UNINMI 	NT. (13) NT. (13) NT. (13) NT. (14) NT. (14) NT. (14) NT. (14)	Ŷ	Ŷ	Ŷ	****	××	
	STANDARD METRIC MOUNTINGS J = 71 FRAME, SGL. CAN (Ø 85.00 B.C. K = 80 FRAME, SGL. CAN (Ø100.00 B.C. L = 90 FRAME, SGL. CAN (Ø115.00 B.C. P = 100 FRAME, SGL. CAN (Ø130.00 B.C. O = 100 FRAME, DBL. CAN (Ø130.00 B.C. U = 028 MM INPUT SHAFT, SGL. CAN CNTW V = Ø28 MM INPUT SHAFT, SGL. CAN CNTW	5) (13)) (13)) (13))) 1NT.(14) 1NT.(14)	×	××	××	×	××	

GENERAL DATA 152 11/12/04 04/22/04

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



ISOCHEM GEAR PUMP PRESSURES TO 100 PSI

SIGNIFICANT MODEL NUMBERING SYSTEM AND SELECTION TABLE

(CONTIUED)

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

NOTES :

- 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 Factory.
- (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.



GENERAL DATA 153 11/12/03 02/12/01

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	x	x	STD
B = PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins		×	×	x	x	x
C - Bearing Flush Ports PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins		×	×	×	x	
D = Bearing Flush Ports, PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins Slotted Bearings	(7)	x	x	x	x	
E - Bearing Flush Ports, PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins Slotted Bearings Slotted Wear Plates	(7) (8)	x	×	x		
F - NON-Recirculation Wear Plates		×	×	x	STD	STD
H = PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins Samarium Cabalt Magnets		x	×	×		
M - Alloy C Containment Can (For 316ss Construction Pumps)		x	×	x	STD	STD
N = Narrow Width Gears			x	x		
R = Recirculation Wear Plates	(10)	STD	STD	STD	x	x
S = Samarium Cobalt Magnet (For Temperatures above 300°F)		×	×	×	STD	STD
T = Temperature Trimmed Plastic Gear		x	x	x	х	х
V = Center Hsg - Vent		×	×	x	x	x
W = Welded Driven Magnet Assy (Samarium Cobalt Magnets ONLY)		x	×	×	×	×
X - Special	(15)	X	x	x	X	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) 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 motors.
- (15) Consult Factory.
- (*) Higher Pressure Model. (**) Model Requires Option "N" (Narrow Width Gears) in Postion 9.

ITEM CLASS GMH8 = IH PRODUCT LINE = H / ISOCHEM

PIN, HOUSING

BOLT, HOUSING

NUT, HOUSING

NAMEPLATE

PLUG, 1 / 8" NPT

ISOCHEM GMH8 SERIES PUMP CONSOLIDATED B / M

40801

62006

62101

52301

41210

316 SS

188 SS

188 SS

ALLOY C

188 SS

40801

62006

62101

52300

41210

316 SS

188 SS

188 55 ALLOY 20

188 SS

17

18

19

62

......

SECTION: MODEL GMH8 PAGE: 200 DATE REV.: 11 / 12 / 12 SUPERSEDES: 11/03/06

						STANDARD PU	MP MATERIAL			1
				316 (A, K, G	SS DR U)	ALLOY C (C, M, OR V)		ALLO (D, N, 1	(Y 20 OR W)	1
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSITION 3	STANDARD PUMP - NON-VARIBLE		ſS							
	HOUSING, FRONT		1	49678	316 SS	49679	ALLOY C	49680	ALLOY 20	1
	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		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	467 11	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		*1	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

316 SS

188 SS

188 55

316 SS

188 SS

POSITION 9, 10, AND 11 OPTIONS - DELETE CORRESPONDING STANDARD PUMP COMPONENT FROM B/M

4

4

4

*2

1

40801

62006

62101

W772565-316

41210

97	Ĺ	HOUSING, CENTER - VENT FNPT	1	40052-2	316 SS	40053-2	ALLOY C	40054-2	ALLOY 20	2
	1	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
	Δ	HOUSING, REAR -BRG FLUSH	1	40247-2	316 SS	40248-2	ALLOY C	40249-2	ALLOY 20	3
	^	PLUG, 1/8" NPT	*2	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	62
C		# PIN, BEARING LOCK	4	41812	316 SS	41813	ALLOY C	41814	ALLOY 20	14
D	В	# O RING, CENTER HOUSING		41107	SS / PFA	41107	SS / PFA	41107	SS / PFA	16
		# O RING, CONTANMENT CAN		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
)		# 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	TFE	99618-06	TFE	99618-06	TFE	23
		# WEAR PLATE, RECIRCULATION	2	40527	CARBON	40527	CARBON	40527	CARBON	15
	1	# 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		40530	PEEK	40530	PEEK	40530	PEEK	15
	W	DRIVEN MAGNET ASSY (WELDED)	1	49715	316 SS	49716	ALLOY C	49717	ALLOY 20	24

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

DWG: GMH8P200

ISOCHEM GMH8 SERIES PUMP CONSOLIDATED B / M

SECTION: PAGE: DATE REV.: SUPERSEDES:

MODEL GMH8 201 11 / 12 / 12 11 / 12 / 04

	316 \$	316 SS ALLOY		YC	ALLOY	/ 20	
		(RU)	(C, M, C	DR V)	(D, N, O	DRW)	
QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
-	QTY	316 : (A, K, O QTY PART NUMBER	316 SS (A, K, OR U) QTY PART NUMBER MATERIAL	316 SS ALLO' (A, K, OR U) (C, M, C QTY PART NUMBER MATERIAL	316 SS ALLOY C (A, K, OR U) (C, M, OR V) QTY PART NUMBER MATERIAL PART NUMBER MATERIAL PART NUMBER	316 SS ALLOY C ALLOY (A, K, OR U) (C, M, OR V) (D, N, OR V) QTY PART NUMBER MATERIAL PART NUMBER MATERIAL PART NUMBER	316 SS ALLOY C ALLOY 20 (A, K, OR U) (C, M, OR V) (D, N, OR W) QTY PART NUMBER MATERIAL PART NUMBER MATERIAL PART NUMBER

POSITION 4	USTITION 4 & DIRIVE AND IDLER GEAR MATERIAL														
A	# GEAR, DRIVE / IDLER	3/4"	1-2	40730	316 SS					6, 7					
C	# GEAR, DRIVE / IDLER	3/4"	1-2	40605	ALLOY C	40605	ALLOY C	40605	ALLOY C	6, 7					
K	# GEAR, IDLER	5/8"		40606	CARBON	40606	CARBON	40606	CARBON	7					
т	# 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					

POSITION 6 WEAR PLATE MATERIAL

POSITION	WLAR FLATE WATERIAL								
К	# WEAR PLATE, SLOTTED		40511	CARBON	40511	CARBON	40511	CARBON	15
т	# WEAR PLATE, SLOTTED		40513	TFE (GF)	40513	TFE (GF)	40513	TFE (GF)	15
Z	# WEAR PLATE, SLOTTED	4	40525	CERAMIC	40525	CERAMIC	40525	CERAMIC	15
E	# WEAR PLATE, SLOTTED		40526	PEEK	40526	PEEK	40526	PEEK	15

POSITION 7 SHAFT AND BEARING MATERIAL

STANDARD CONSTRUCTION # SHAFT, DRIVE 41370 316 SS 41371 ALLOY C 41372 ALLOY 20 4 1 # SHAFT, IDLER 5/8" 41337 316 SS 41338 ALLOY C 41339 ALLOY 20 5 1 К 41344 # SHAFT, IDLER METAL GEAR 41342 3/4" 316 SS 41343 ALLOY C 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 41371 41372 41370 316 SS ALLOY C ALLOY 20 4 1 # SHAFT, IDLER 5/8" 41337 316 SS 41338 ALLOY C 41339 ALLOY 20 5 1 Ĺ # SHAFT, IDLER METAL GEAR 3/4" 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' 41337 316 SS 41338 ALLOY C 41339 ALLOY 20 5 1 Т 41342 ALLOY 20 # SHAFT, IDLER METAL GEAR 3/4" 316 SS 41343 ALLOY C 41344 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

EXTENDED / WEAR - BOTH SHAFTS

	# SHAFT, DRIVE		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
C #	# SHAFT, IDLER METAL GEAR	3/4"		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

CORROSION / WEAR ("CW") - BOTH SHAFTS

В	# SHAFT, DRIVE		1	41396	CW / 316 SS	41397	CW / ALY C	41398	CW / ALY20	4
	# SHAFT, IDLER	5/8"	4	41354	CW / 316 SS	41355	CW / ALY C	41356	CW / ALY20	5
	# 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 DWG: GMH8P201

ISOCHEM GMH8 SERIES PUMP CONSOLIDATED B / M

SECTION: M PAGE: 20 DATE REV.: 11 SUPERSEDES: 02

MODEL GMH8 202 11 / 12 / 12 02 / 12 / 01

					STANDARD PU	MP MATERIAL			1
			316 (A, K, I	SS OR U)	ALLC (C, M,	DY C OR V)	ALLC (D, N,	IY 20 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	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
143 / 5TC, 184	C FRAME COMPONENTS		n Autoriteration	Second State	The result of	anna a cana		40%-240-940-2-	1
COMMON	HOLDER, DRIVE MAGNET	1	49705	STEEL	49705	STEEL	49705	STEEL	30
PARTS	ADAPTOR, MOTOR	1	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	36
ARTS	BOLT, MOTOR	4	W770425-188	188 SS	W770425-188	188 SS	W770425-188	188 SS	41
SINGLE CONTA	AINMENT CAN COMPONENTS		· · · · · · · · · · · · · · · · · · ·						~
0	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	31
U	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	28
DOUBLE CONT	TAINMENT 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
D	# O RING, CONTAINMENT CAN	*1	W210422-TFE	TFE	W210422-TFE	TFE	W210422-TFE	ITFE	25
	NIPPLE, 1/8" NPT X 2.00	2	W773965-208	316 SS	W773965-235	ALLOY C	W773965-145	ALLOY 20	66
100 FRAME CO	OMPONENTS								
60141401	HOLDER, DRIVE MAGNET	1	49718	STEEL	49718	STEEL	49718	STEEL	30
DADTE	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						-		
n	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	31
r r		1.020	10710		1000		1010/001/1011	0101010101	

the second second second		11.					27		9.6
	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	32
0	CAN ASSY, CONTAINMENT	1	49698	316 SS	49699	ALLOY C	49700	ALLOY 20	27
ų	# 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

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

DWG: GMH8P202

ISOCHEM GMH8 SERIES PUMP CONSOLIDATED B / M

UMP PAGE: DATE REV.: SUPERSEDES:

SECTION:

MODEL GMH8 203 11 / 12 / 12 02 / 12 / 01

					STANDARD PU	MP MATERIAL			1
			316	5 55				IY 20	
			(A. K.	OR U)	(C.M.	OR V)	(D. N.	OR W)	
	DESCRIPTION	VT0	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
DOCITION		a .1			in the second contract of the second s				1.1.2.5
POSITION 8		1	40607	216.55	49707	ALLOY C	49709	ALLOV 20	24
	BOLT FRONT HOUSING / ADARTOR	-	43037	100 CC	W/770407-199	199.55	W/770407-199	199.55	24
	# O PING CONTAINMENT CAN	1	W/210422-TEE	TEE	W/210422-TEE	T00 33	W/210422-TEE	100.33	22
COMMON	# O RING, CONTAINVIENT CAN	1	WZ10422-TFE	CTEEL	WZ10422-TFE	CTEE	WZ10422-TFE	CTEE	25
PARTS	PIN, DRIVE MAGNET / HOLDER	2	W771209-003	STEEL 100.00	W771209-003	STEEL	W771209-003	STEEL 100.00	34
	SCREW, SKHU DRIVE MAGNET / HOLDER	4	W770027-188	188 55	W770027-188	188 55	W770027-188	188.55	33
	CAN, CONTAINMENT	1	49674	ALLOYC	49674	ALLOY C	49674	ALLOYC	26
	SCREW, CONTAINMENT CAN RING	8	W770021-188	188 SS	W770021-188	188 55	W770021-188	188 55	29
182 / 4TC FRAI	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
	SCREW MOTOR	4	W770580-STI	STEEL	W770580-STI	STEEL	W770580-STI	STEEL	69
COMMON		1	Y1101600-STL	STEEL	Y1101600-STL	STEEL	Y1101600-STL	STEEL	68
PARTS		4	W770425-188	188 55	W770425-188	188 55	W770425-188	188 55	41
	WASHER LOCK	4	W771108-188	188 55	W771108-188	188 55	W771108-188	188 55	67
	SCREW SET	2	W771004-030	STEEL	W771004-030	STEEL	W771004-030	STEEL	35
SINGLE CONTA		2	W//100+030	STELL	W771004-050	SILL	W//1004-050	51666	1 33
_	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	31
в	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
	CAN ASSY, CONTAINMENT	1	49698	316 SS	49699	ALLOY C	49700	ALLOY 20	27
Т	# O RING, CONTAINMENT CAN	*1	W210422-TFE	TFE	W210422-TEE	TFE	W210422-TEE	TFE	25
	NIPPLE, 1/8" NPT X 2.00	2	W773965-208	316 SS	W773965-235	ALLOY C	W773965-145	ALLOY 20	66
	The Course Solid Concerning Street Street Street		Contraction of Personal States	2 Decine Decine (All or of Section		County County Sec. 1999		A SERVICE IN A MERICINE OF COMPANY	
213 / 5TC FRA	ME COMPONENTS								
	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
	SCREW, SET	2	W771004-046	STEEL	W771004-046	STEEL	W771004-046	STEEL	35
SINGLE CONTA	INMENT CAN COMPONENTS								
14/	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	31
VV	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
353	CAN ASSY, CONTAINMENT	1	49698	316 SS	49699	ALLOY C	49700	ALLOY 20	27
Y	# 0 RING. CONTAINMENT CAN	*1	W210422-TEE	TEE	W210422-TEE	TEE	W210422-TEF	TEE	25

316 SS

W773965-235

ALLOY C

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

2 W773965-208

NIPPLE, 1/8" NPT X 2.00

DWG: GMH8P203

W773965-145 ALLOY 20 66

ITEM CLASS GM12 = IZ PRODUCT LINE = H / ISOCHEM

ISOCHEM GM12 SERIES PUMP CONSOLIDATED B / M

SECTION: PAGE: MODEL GM12 200 DATE REV.: SUPERSEDES:

11 / 12 / 12 11/21/11

					STANDARD PU	MP MATERIAL			1
	STRUCTURED WITH NO DASHES		316	5 55	ALL	DY C	ALLO	DY 20	
	EXAMPLE: GM12XXXXXX		(A. K.	ORU)	(C. M.	OR V)	(D. N.	OR W)	
	DESCRIPTION	ΩΤΥ	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
				57879727972597245585		ALMAN TO LANGERS DO N			Later Contract
POSITION 3	STANDARD PUMP - NON-VARIABLE COMPONE		00000	216.55	00610	ALLOYC	00011	411-07/20	1 1
	HOUSING, FRONT	1	99609	316 55	99610	ALLOYC	99611	ALLOY 20	1
	HOUSING, CENTER FNPT	-	90001	316.55	90006	ALLOYC	90005	ALLOY 20	2
	HOUSING, CENTER FBSPT	- ¹	90012	316.55	90013	ALLOYC	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	
POSITION 9, 1	LOUGHNE CENTER MENT CARESPONDING STA	I			00000 0	ALLOYC	00005-0		1 ~
	HOUSING, CENTER - VENT FINPT	-	90001-2	316 55	90006-2	ALLOYC	90005-2	ALLOY 20	2
v	HOUSING, CENTER - VENT FBSPT	- ⁻	90012-2	316 55	90013-2	ALLOYC	90014-2	ALLOY 20	2
	HOUSING, CENTER - VENT FLGD	**	90003-2	316 55	90007-2	ALLOYC	90010-2	ALLOY 20	2
-	PLUG, 178" NPT	*1	W//2565-316	316 55	52301	ALLOYC	52300	ALLUY 20	62
В	# O-RING, HOUSING	2	91106	SS/PFA	91106	SS / PFA	91106	SS / PFA	16
	# U-RING, CONTAINMENT CAN	1-2	W212172-001	SS/PFA	W212172-001	SS / PFA	W212172-001	SS / PFA	25
	HOUSING, REAR - RECIRCULATION	1	90201-3	316 55	90205-3	ALLOYC	90204-3	ALLOY 20	3
	# BUSHING, RECIRCULATION (.060)	2	99618-06	IFE	99618-06	IFE	99618-06	IFE	23
R	# WEAR PLATE, RECIRCULATION	-	90516	CARBON	90516	CARBON	90516	CARBON	15
	# WEAR PLATE, RECIRCULATION	4	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	99663	316 SS	99664	ALLOY C	99665	ALLOY 20	24
	# DRIVE SHAFT	1	90367	316 SS					
	IDLER SHAFT ASSEMBLY				1997	Read and	100,000		(H)
125.524	SHAFT, SLEEVED IDLER 3/4"	1	90397	316 SS					
HF	# SLEEVE SHAFT 1"	2	90391	316 SS		1000	10000		88
	# SCREW, SLEEVE	2	W770021-316	316 SS					
	# GEAR, IDLER 3/4"	1	90677	PEEK					100

EWCBN

.....

*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M

4

90437

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

DENOTES RECOMMENDED SPARE PART

BEARING, SLTD DRV / IDL SHAFT

DWG: GM12P200

ISOCHEM GM12 SERIES PUMP CONSOLIDATED B / M

SECTION: MODEL GM12 PAGE: 201 DATE REV.:

11/12/12

						17779-1820-182		SUPERSEDES:	11/12/04	
						STANDARD PU	MP MATERIAL		-	1
				316	5 SS	ALLC	ру с	ALLC	DY 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 &	S DRIVE AND IDLER GEAR MATERIAL	4.0	110	00670	216.66	1 1			1	
A	# GEAR, DRIVE/IDLER	1	1-2	90679	316.55					6,7
C	# GEAR, DRIVE/IDLER	1	1-2	90627	ALLOYC	90627	ALLOYC	90627	ALLOYC	6, /
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			5						
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			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					-				
	# BEARING, DRIVE/IDLER SHAF	1"	4	90437	EWCBN	90437	EWCBN	90437	EWCBN	12, 13
	# SHAFT, DRIVE		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"	_							100
	SHAFT, SLEEVED IDLER		1	90397	316 SS	90398	ALLOY C	90399	ALLOY 20	5
	SHAFT, SLEEVED IDLER (CBN GR)		-	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
	# BEARING, DRIVE/IDLER SHAFT	1"	4	90428	TFE (GF)	90428	TFE (GF)	90428	TFE (GF)	12, 13
	# SHAFT, DRIVE		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
·+	IDLER SHAFT ASSEMBLY	3/4"	1							
	SHAFT, SLEEVED IDLER		1	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	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 SHAFT	1"	4	90441	EWCBN	90441	EWCBN	90441	EWCBN	12, 13
	# SHAFT, DRIVE		1	90367	316 SS	90368	ALLOY C	90369	ALLOY 20	4
	# SHAFT, IDLER (METAL GEAR)	1"		90308	316 SS	90318	ALLOY C	90364	ALLOY 20	5
	IDLER SHAFT ASSEMBLY	3/4"	1						*****	(H)
4	SHAFT, SLEEVED IDLER			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	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
	· · · · · · · · · · · · · · · · · · ·									
EXTENDED/W	EAR - BOTH SHAFTS									
	# BEARING, DRIVE/IDLER SHAFT	1 ⁿ	4	90437	EWCBN	90437	EWCBN	90437	EWCBN	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		a second					92
С	SHAFT, SLEEVED IDLEB			90397	316 SS	90398	ALLOY C	90399	ALLOY 20	5
	SHAFT, SLEEVED IDLER (CBN GR)		1	99669	316.55	99670	ALLOY C	99671	ALLOY 20	5
	#SLEEVE SHAFT	1"	2	90394	CW/31655	90395	CW / ALY C	90396	CW/AIY20	42
	#SCREW SLEEVE	÷.	2	W770021-316	316.55	W770021-HC0		W770021-020	ALLOY 20	43
	and one wy deceve		1 4	11/10021-010	210.22	11/10021-1100	ALLOIG	M110021-020		07522
CORROSION/	WEAR ("CW/") - BOTH SHAFTS									
CONTROBION/	# REARING DRIVE/IDLER SHAFT	17	1	90/130	SICED	90/130	SICED	90/130	SICRD	12 12
	# SHAFT DRIVE	±	1	90370	CW/ 216 CC	90371	CW / ALV C	90272		12, 13
	# SHAFT IDLER (METAL GEAR)	1"	-	90370	CW/ 316 CC	90374	CW / ALT C	90375	CW/ALIZO	4
	IDLER SHAFT ASSEMBLY	3//"	1	30373	C 44 / 210 22	30374	CVV / ALT C	30373	CWY ALTZU	3
В	SHAFT SLEEVED IDLED	3/4	-	90207	316.55	90209	ALLOYC	90200		
	JUMI I, JULLINE U IULLIN		1 4	30337	210 22	30330	ALLOIG	30333	ALLOI ZU	1

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

SHAFT, SLEEVED IDLER (CBN GR)

SLEEVE, SHAFT

SCREW, SLEEVE

1

2

1"

99669

90394

2 W770021-316

316 SS

CW / 316 SS

316 SS

99670

90395

W770021-HC0

ALLOY C

CW / ALY C

ALLOY C

99671

90396

W770021-020

ALLOY 20 DWG: GM12P201

ALLOY 20

CW / ALY20

5

42

43

ISOCHEM GM12 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GM12

 PAGE:
 202

 DATE REV:
 11 / 12 / 12

 SUPERSEDES:
 04 / 01 / 98

					STANDARD PU	MP MATERIAL			
			316	i SS	ALLC	DY C	ALLC	IY 20	1
			(A, K, I	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	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 SS	39
	SPRING	6	99642	188 SS	99642	188 SS	99642	188 SS	40
	BOLT, POWERFRAME	*4	W770426-188	188 SS	W770426-188	188 SS	W770426-188	188 SS	41
R DOUBLE CONT	DRIVE MAGNET ASSY RING, CONTAINMENT CAN	1	99635 99630	STL 316 SS	99635 99630	STL 316 SS	99635 99630	STL 316 SS	31 28
	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	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 55	W773965-235	ALLOY C	W773965-145	ALLOY 20	66
STANDARD MI									
	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
						31.2001-5041	•	A 230 300	
DOUBLE CONT	TAINMENT CAN COMPONENTS				1				T
	POWERFRAME µ28 MM INPUT SHAFT	1	99649	STL	99649	STL	99649	STL	38
12/1	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
6	L NIPPLE 1/8" NPT X 2 00	2	W773965-208	316 55	M/773965-235	ALLOYC	W/773965-145	ALLOV 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:
 MODEL GM16

 PAGE:
 200

 DATE REV.:
 11 / 12 / 12

 SUPERSEDES:
 02 / 23 / 10

						STANDARD PU	MP MATERIAL			1
	STRUCTURED WITH NO DASHES			316	SS	ALLC	DY C	ALLC	DY 20	1
A.V.	EXAMPLE: GM16XXXXXX			(U)	(\	')	(V	∨)	
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSITION 3	STANDARD PUMP - NON-VARIABLE	COMPON	ENTS							
	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"	*0-2	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	TFE	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
	NAMEPI ATE		1	41210	188 55	41210	188 55	41210	188 55	-

POSITION 9, 10, AND 11 OPTIONS - DELETE CORRESPONDING STANDARD PUMP COMPONENT FROM B/M

ē	# O-RING, HOUSING	2	91106	SS / PFA	91106	SS / PFA	91106	SS / PFA	16
P	# O-RING, CONTAINMENT CAN	1-2	W212172-001	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
	# WEAR PLATE, RECIRCULATION	4	90516	CARBON	90516	CARBON	90516	CARBON	15
<u>n</u>	# 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
	# IDLER SHAFT, 1" DIA	1	NG070021-316	316 SS					
HF	# GEAR, IDLER, 1" DIA	1	NG010026-PK1	316 SS					-
	# 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:

201 11 / 12 / 12 11 / 12 / 04

				STANDARD PUMP MATERIAL				
		316	316 SS		ALLOY C		ALLOY 20	
		(U)	(V)	(V)	()	
DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM

POSITION 4	& 5 DRIVE AND IDLER GEAR MATE	RIAL								
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
К	# GEAR, IDLER	3/4"		90676	CARBON	90676	CARBON	90676	CARBON	7
т	# GEAR, IDLER	3/4"	0-1	90683	TFE (GF)	90683	TFE (GF)	90683	TFE (GF)	7
Ē	# GEAR, IDLER	3/4"		90678	PEEK	90678	PEEK	90678	PEEK	7

POSITION 6 WEAR PLATE MATERIAL

К	# WEAR PLATE, SLOTTED	4	90503	CARBON	90503	CARBON	90503	CARBON	15
т	# WEAR PLATE, SLOTTED		90510	TFE (GF)	90510	TFE (GF)	90510	TFE (GF)	15
Z	# WEAR PLATE, SLOTTED		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 CONSTRUCTION

Ţ	# 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
	IDLER SHAFT ASSEMBLY	3/4"	1	1000 A	s contration of	A MARTINA A MARTINA	and the second se	10000		100
	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
т	# 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
	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
	# 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"	1					100000	No. Contraction	
	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

EXTENDED/WEAR - BOTH SHAFTS

С	# BEARING, DRIVE/IDLER SHAFT	1"	4	90437	EWCBN	90437	EWCBN	90437	EWCBN	12, 13
	# SHAFT, DRIVE		1	90382	CW / 316 SS	90383	CW / ALY C	90384	CW / ALY20	4
	# SHAFT, IDLER (METALIC GEAR)	10	1	90385	CW / 316 SS	90386	CW / ALY C	90387	CW / ALY20	5
	IDLER SHAFT ASSEMBLY	3/4"] <u>+</u> [
	SHAFT, SLEEVED IDLER		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

CORROSION/WEAR ("CW") - BOTH SHAFTS

					0	- CT		2	5	190
В	# 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
	IDLER SHAFT ASSEMBLY	3/4"								
	SHAFT, SLEEVED IDLER		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

٦
ISOCHEM GM16 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GM16

 PAGE:
 202

 DATE REV.:
 11/12/12

 SUPERSEDES:
 04/01/98

					STANDARD PU	MP MATERIAL			
			316 (U	SS)	ALLC (V))	ALLO (W	Y 20 /)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSITION 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	37
	PIN	6	99641	188 SS	99641	188 SS	99641	188 SS	39
	SPRING	6	99642	188 SS	99642	188 SS	99642	188 SS	40
	BOLT, POWERFRAME ADAPTOR	*4	W770426-188	188 SS	W770426-188	188 SS	W770426-188	188 SS	41

STANDARD U.S. MOUNTING

SINGLE CONTAI	INGLE CONTAINMENT CAN COMPONENTS													
	POWERFRAME µ1.125 INPUT SHAFT	1	99648	STL	99648	STL	99648	STL	38					
R	DRIVE MAGNET ASSY	1	99636	STL	99636	STL	99636	STL	31					
	RING, CONTAINMENT CAN	1	99630	316 SS	99630	316 SS	99630	316 SS	28					

DOUBLE CONTAINMENT CAN COMPONENTS

	POWERFRAME µ1.125 INPUT SHAFT	1	99648	STL	99648	STL	99648	STL	38
	DRIVE MAGNET ASSY	1	99639	STL	99639	STL	99639	STL	32
°τ	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	W773965-020	ALLOY 20	66

STANDARD METRIC MOUNTING

SINGLE CONTAINMENT CAN COMPONENTS

U	POWERFRAME µ28 MM INPUT SHAFT	1	99649	STL	99649	STL	99649	STL	38
	DRIVE MAGNET ASSY	1	99636	STL	99636	STL	99636	STL	31
	RING, CONTAINMENT CAN		99630	316 SS	99630	316 SS	99630	316 SS	28

DOUBLE CONTAINMENT CAN COMPONENTS

	POWERFRAME µ24 MM INPUT SHAFT	1	99649	STL	99649	STL	99649	STL	38
	DRIVE MAGNET ASSY	1	99639	STL	99639	STL	99639	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: GM16P202

PERFORMANCE CHARTS



* BRAKE HORSEPOWER SHOWN AS DASHED CURVES



Installation, Operation & Maintenance Instruction

All Models



Isochem[®] GEARCHEM PUMPS

Bulletin No. IOM-ISO-4000-Rev B ADDENDUM 7-2015



GENERAL DATA 150 11/12/04 11/12/03

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	IOUNT I NO	ASSEMB	- 1 - 12 LY - 8	2, 4 16	. 6.	8		
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* .8 100 300	.25' 1.5 100 200	.50* 3 100 200	.75* 10 100 150	1.00* 20 50 150	1.00* 20 100 200	1.50* 26 100 200	2.00* 55 100 200
POSITION 3 AVAILABLE PUMP METALLURGIES AND TYPE	PORT	ONNECTI	ON					
A = 316SS FNPT B = ALLOY B FNPT C = ALLOY C FNPT D = ALLOY ZO FNPT F = TITANIUM FNPT K = 316SS FBSPT L = ALLOY B FBSPT M = ALLOY CO FBSPT N = ALLOY CO FBSPT U = 316SS FLANGED V = ALLOY C FLANGED W = ALLOY C FLANGED	****	* ** * ** ***	* ** * ** ***	* ** * ** ***	* ** * ** ***	* ** * ** ***	* ** * ** ***	***
POSITION 4 DRIVE GEAR MATERIAL		•			•			
C = ALLOY C D = ALLOY 20 T = TFE (Gloss Filled) (1,17) E = PEEK (17) A = 316SS D = BYTON (17)	×× ××	****	****	****	****	× ×	× ×	× ×
POSITION 5 IDLER GEAR MATERIAL	^							
C - ALLOY C (2,12) D - ALLOY 20 (2) K - Carbon (2) T - TFE (Gloss Filled) (17) E - PEEK (17) A - 316SS (17) Q - RYTON (17)	** ****	*****	*****	*****	****	* ***	* ****	* ****
POSITION 6 WEAR PLATE MATERIAL (16)								
K - Carbon T - TFE (Glass Filled) Z - Ceramic (3) E - PEEK O - RYTON	×× ××	××××	****	****	××××	××××	****	××××
POSITION 7 BEARING MATERIAL (16)			5		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
K - Standord Carbon (4) L - Extended Life Carbon (4) T - TFE (Gloss Filled) (4,11) 4 - Standard Carbon - Statted (4)	x x	XXX	×××	×××	×××	XXXX	XXX	××
C = Extended Life Carbon - "CW" Shafts (5) B = Silicon Carbide - "CW" Shafts (5,6) O = RYTON E = PEEK	×	××	××	××	××	××	××	××
POSITION 8 MAG DRIVE MOUNTING ARRANGEMENT								
STANDARD U.S. MOUNTINGS B = 42C FRAME, SGL. CAN CNTNMNT. (13) C = 48E FRAME, SGL. CAN CNTNMNT. (13) F = 56C FRAME, SGL. CAN CNTNMNT. (13) 0 = 143TC- 184C FRAME, SGL. CAN CNTNMNT. (13) D = 143TC- 184C FRAME, DBL. CAN CNTNMNT. (13) R = 182TC- 184TC FRAME, SGL. CAN CNTNMNT. (14) Y = 213TC- 215TC FRAME, DBL. CAN CNTNMNT. (14) Y = 213TC- 215TC FRAME, DBL. CAN CNTNMNT. (14)	xxx	x x	××	×	××	****	××	××
STANDARD METRIC MOUNTINGS H = 63 FRAME. SGL. CAN (# 85.00 B.C.) (13) J = 71 FRAME. SGL. CAN (# 85.00 B.C.) (13) K = 80 FRAME. SGL. CAN (# 910.00 B.C.) (13) L = 90 FRAME. SGL. CAN (# 15.00 B.C.) (13) P = 100 FRAME. SGL. CAN (# 15.00 B.C.) (13) O = 100 FRAME. SGL. CAN (# 15.00 B.C.) (13) O = 100 FRAME. SGL. CAN (# 15.00 B.C.) (13) O = 100 FRAME. SGL. CAN (# 16.00 B.C.) (13) U = #28 MN INPUT SHAFT. SGL. CAN CAN CAN CAN	X	×	×	××	×	××	××	××

(*) Higher Pressure Model.



GENERAL DATA 151 11/12/03 11/13/01

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	x	X	X	STD	STD
B = PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins			×	×	x	x	×	×	x
C = Bearing Flush Ports PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins			×	×	×	x	×		
D - Bearing Flush Ports, PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins Slatted Bearings	(7)		×	×	×	x	×		
E - Bearing Flush Ports, PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins Slotted Bearings Slotted Wear Plates	(7) (8)		x	x	x	x			
F = NON-Recirculation Wear Plates			x	x	x	x	STD	STD	STD
H = PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins Samorium Cobalt Magnets			×	x	x	x			
M - Alloy C Containment Can (For 316ss Construction Pumps)			×	×	×	x	STD	STD	STD
N = Narrow Width Gears	(9)			x	х				
R = Recirculation Wear Plates	(10)		STD	STD	STD	STD	×	×	×
S = Samorium Cobalt Magnet (For Temperatures above 300°F)		STD	×	×	x	x	STD	STD	STD
T = Temperature Trimmed Plastic Gear			x	x	x	x	×	×	x
V – Center Hsg – Vent			x	x	x	x	×	×	STD
W = Welded Driven Magnet Assy (Samarium Cobalt Magnets ONLY)			×	×	x	x	×	×	x
X - Special	(15)		×	x	×	X	×	×	×

NOTES:

 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 Factory.
- (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.



GENERAL DATA 152 11/12/04 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 6	7 8] [] 9	10	 11
POSITION 1 ISOCHEM MAGN GMC - C-FACE MOTOR GM - C-FACE MOTOR GMH - HIGHER PRESS	ETICALLY DRI MOUNTING AS MOUNTING AS URE MODEL, C	VEN SEALLESS SEMBLY SEMBLY -FACE MOTOR M	OUNTING	ASSEMB	- 2 - 12 LY - 6	. 4.	6	
POSITION 2 PUMP SIZE			2	**4	**6	*6	12	
Port Size (INCHES) Capacity (GPM MAX) Differential Pressure Max. Casing Pressure	(PSIG MAX) (PSIG MAX)		.25* 1.5 175 200	.50* 2.1 140 200	.75 8.0 125 150	.75 10 200 250	1.50* 26 150 200	
POSITION 3 AVAILABLE P	UMP METALLUR	SIES AND TYPE	PORT C	ONNECTI	ON			
A = 316SS C = ALLOY C D = ALLOY 20 K = 316SS M = ALLOY C N = ALLOY 20 U = 316SS V = ALLOY C W = ALLOY C	FNPT FNPT FBSPT FBSPT FBSPT FLANGED FLANGED FLANGED		****	****	****	****	*****	
POSITION 4 DRIVE GEAR	MATERIAL							
A = 316 SS C = ALLOY C D = ALLOY 20			XXX	xxx	xxx	××	XX	
POSITION 5 IDLER GEAR	MATERIAL			×	-			
A = 316 SS C = ALLOY C D = ALLOY 20 E = PEEK		(2,12) (2)	****	xxxx	××××	x xx	×× ×	
POSITION 6 WEAR PLATE	MATERIAL							
K = Carbon T = TFE (Glass Filled Z = Ceramic E = PEEK)	(3)	××××	××××	****	****	××××	
POSITION 7 BEARING AND	SHAFT MATER	IAL						
K - Standard Carbon L - Extended Life Carl 4 - Standard Carban - C - Extended Life Carl B - Silicon Carbide -	bon Slotted bon - 'CW' Si 'CW' Shafts	(4) (4) (4) nafts (5) (5,6)	xx xx	xx xx	×× ××	xx xx	****	
POSITION 8 MAG DRIVE M	DUNTING ARRAI	NGEMENT		No				
STANDARD	U.S. MOUNTI	NGS	8.8		2017			
F = 56C FRAME, SGL. C. 0 = 143TC- 184C FRAME D = 143TC- 184C FRAME R = 182TC- 184TC FRAM T = 182TC- 184TC FRAM W = 213TC- 215TC FRAM Y = 213TC- 215TC FRAM	AN CNTNMNT. , SGL. CAN CI , DBL. CAN CI E, SGL. CAN C E, DBL. CAN C E, SGL. CAN C E, DBL. CAN C	(13) NTNMNT. (13) NTNMNT. (13) NTNMNT. (14) NTNMNT. (14) NTNMNT. (14) NTNMNT. (14)	×	×	×	*****	×	
STANDARD	METRIC MOUN	TINGS						
J = 71 FRAME. SGL. C. K = 80 FRAME. SGL. C. L = 90 FRAME. SGL. C. P = 100 FRAME. SGL. C. 0 = 100 FRAME. SGL. C. 0 = 100 FRAME. DBL. C. U = 028 MM INPUT SHAF V = 028 MM INPUT SHAF	AN (Ø 85.00 AN (Ø100.00 AN (Ø115.00 AN (Ø130.00 AN (Ø130.00 T, SGL. CAN (T, DBL. CAN (3.C.) (13) 3.C.) (13) 3.C.) (13) 3.C.) 3.C.) 5.C.) CNTNMNT.(14) CNTNMNT.(14)	X	××	×	×	×	

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



GENERAL DATA 153 11/12/03 02/12/01

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	x	x	STD
B = PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins		×	×	x	x	x
C - Bearing Flush Ports PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins		x	×	×	x	
D = Bearing Flush Parts, PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins Slotted Bearings	(7)	X	x	x	x	
E - Bearing Flush Ports, PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins Slotted Bearings Slotted Wear Plates	(7) (8)	x	x	x		
F = NON-Recirculation Wear Plates		x	x	×	STD	STD
H = PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins Samarium Cobalt Magnets		×	×	×		
M = Alloy C Containment Can (For 316ss Construction Pumps)		х	×	x	STD	STD
N = Narrow Width Gears			x	×		
R = Recirculation Wear Plates	(10)	STD	STD	STD	x	x
S = Samarium Cobalt Magnet (For Temperatures above 300°F)		×	×	×	STD	STD
T = Temperature Trimmed Plastic Gear		x	x	x	x	x
V = Center Hsg - Vent		x	x	×	x	x
W = Welded Driven Magnet Assy (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) 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 motors.

(15) Consult Factory.

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

		CERTIFIED	DRAWING	BY SPULSA	FEEDER			
F0R :					SERIAL	NO.:_		
CUSTOMER P.O.	NO:				SERIAL	NO.:		
ITEM: GMC2	BUSINGA.	_ DATED :		BY:	PULSA.	ORDER	NO.:	
TAGG I NG :								-



		CERTIFIED	DRAWING	BY				
F0R :					SERIA	_ NO.:_		
CUSTOMER P.O.	NO : _				SER I AI	NO.:_		
ITEM: GMC2		DATED:		BY:	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

								STANDARD PU	MP MATERIAL			1
						316	SS	ALLO	DY C	ALLC	Y 20	
						(A, K,	OR U)	(C, M,	ORV)	(D, N,	ORW)	
				DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POS		1.3			NTS							
103				HOUSING CENTER - 1/4" PORT ENPT		70026	316.55	70027	ALLOY C	70028	ALLOY 20	2
				HOUSING CENTER ERSPT	1	70020	316 55	70027	ALLOY C	70023	ALLOY 20	2
				HOUSING CENTER ELANGED		NG040004-316	316 55	NG040004-HC0	ALLOY C	NG040004-020	ALLOY 20	2
				HOUSING, REAR	1	70214	316 55	70215	ALLOY C	70216	ALLOY 20	1
				# RING. RETAINING	6	76706	316.55	76701	ALLOY C	76701	ALLOYIC	14
				# KEY. METAL DRIVE GEAR		71931	316 SS	71911	ALLOY C	71910	ALLOY 20	8
				# KEY. PLASTIC DRIVE GEAR	*1	71932	316 SS	71917	ALLOY C	71916	ALLOY 20	8
				# KEY, MTL / CBN IDLER GEAR	**	71931	316 SS	71911	ALLOY C	71910	ALLOY 20	8
				# KEY, PLASTIC IDLER GEAR	*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 SS	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 SS	
POS	ыпо	VS 9,	10,	AND 11 OPTIONS - DELETE CORRESPONDING STA	ANDAF	D PUMP COMPON	IENT FROM B / M					
				HOUSING, CENTER - VENT FNPT		70026-2	316 SS	70027-2	ALLOY C	70028-2	ALLOY 20	2
			v	HOUSING, CENTER - VENT FBSPT	1	70029-2	316 SS	70030-2	ALLOY C	70031-2	ALLOY 20	2
			•	HOUSING, CENTER - VENT FLANGED		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
			А	HOUSING, REAR - BRG FLUSH	1	70212	316 SS	70234	ALLOY C	70233	ALLOY 20	1
				PLUG, 1/8" NPT	*2	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	27
		С		# PIN, BEARING LOCK	3-4	41802	ALLOY 20	41806	ALLOY C	41802	ALLOY 20	10
			В	# 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
				# BEARING, SLOTTED TFE (GF)	1	70432	TFE (GF)	70432	TFE (GF)	70432	TFE (GF)	9
_	D				3	70433	TFE (GF)	70433	TFE (GF)	70433	TFE (GF)	9
E				# WEAR PLATE, SLOTTED	4	/0526	CARBON	/0526	CARBON	/0526	CARBON	11
				# WEAR PLATE - NON-RECIRCULATION		/0523	CARBON	70523	CARBON	/0523	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
		ŀ		# WEAR PLATE - NUN-RECIRCULATION	4	70534	PEEK	70534	PEEK	70534	PEEK	11
		ŀ	IVI		1	79631	ALLUY C	70642				19
		-		DRVN MAG ASSY (WELDED) / (SAMAR)	L T	79616	316 55	79643		79662		18
			ç	DRV WAG ASSY, 30C FK (SAIVIAK.)	-	79004	SIEEL	79604	SIEEL	79604		21
			3	DRV MAG ASST, 140TC FR (SAMAR.)	1	79030	STEEL	79636	STEEL	79636	STEEL	21
				DRV WAG ASST, / LEK (SAWAR.)	-	79088		70680		79088		21
				DRVNIMAG ASSY (WEIDED) / (SAMAP)	1	79009	316.55	79069		79069		18
			н		1	COMBINE	DLIMD		R	AND	ALLOT 20	1 10
		ŀ	YM	HOUSING CENTER 1/2" DORT ENDT	1	70014	216.55	70016		70015	ALLOY 20	2
		L	VIN	noosing, CENTER - 1/2 PORT FNPT	L T	70014	210.22	10010	ALLOTIC	70015	ALLUT ZU	2

*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

				STANDARD PU	MP MATERIAL			
		316	i SS	ALLOY C		ALLOY 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	& 5 DRIVE AND IDLER GEAR MATERIAL								
A	# GEAR, DRIVE / IDLER	1-2	70696	316 SS		2		24448	6, 7
C	# GEAR, DRIVE / IDLER	1-2	70672	ALLOY C	70672	ALLOY C	70672	ALLOY C	6, 7
D	# GEAR, DRIVE / IDLER	1-2	70673	ALLOY 20	(*****)		70673	ALLOY 20	6, 7
К	# GEAR, IDLER	1	70674	CARBON	70674	CARBON	70674	CARBON	6, 7
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, 7

POSITION 6 WEAR PLATE MATERIAL

К	# WEAR PLATE, RECIRCULATION		70527	CARBON	70527	CARBON	70527	CARBON	11
т	# WEAR PLATE, RECIRCULATION		70528	TFE (GF)	70528	TFE (GF)	70528	TFE (GF)	11
Z	# WEAR PLATE, RECIRCULATION	.4	70529	CERAMIC	70529	CERAMIC	70529	CERAMIC	11
E	# WEAR PLATE, RECIRCULATION		70546	PEEK	70546	PEEK	70546	PEEK	11
		Sector Sector			CELEMENT COLUMN		Provide Precision of the second	and the second sec	

POSITION 7 SHAFT AND BEARING MATERIAL

STANDARD	CONSTRUCTION								
	# 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	5
К	# BEARING, DRIVE / IDLER SHAFT	5	70404	CARBON	70404	CARBON	70404	CARBON	9
	# PIN, BEARING LOCK - DRIVEN	1	41808	316 SS	41809	ALLOY C	41810	ALLOY 20	31
	# PIN, BEARING LOCK	3	41801	TFE	41801	TEE	41801	TFE	10
	# 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	5
E	# BEARING, DRIVE / IDLER SHAFT	5	70431	EWCBN	70431	EWCBN	70431	EWCBN	9
	# PIN, BEARING LOCK - DRIVEN	1	41808	316 SS	41809	ALLOY C	41810	ALLOY 20	31
	# PIN, BEARING LOCK	3	41801	TFE	41801	TFE	41801	TFE	10
C	# 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	5
Т	# BEARING, DRIVE SHAFT	1	70401	TFE (GF)	70401	TFE (GF)	70401	TFE (GF)	9
	# BEARING, DRIVE / IDLER SHAFT	3	70402	TFE (GF)	70402	TFE (GF)	70402	TFE (GF)	9
	# PIN, BEARING LOCK	4	41801	TFE	41801	TEE	41801	TFE	10

EXTENDED / WEAR - BOTH SHAFTS

	# SHAFT, DRIVE	1	70393	"CW"	70303	"CW"	70307	"CW"	4
	# SHAFT, IDLER	1	70394	"CW"	70397	"CW"	70308	"CW"	5
С	# BEARING, DRIVE SHAFT	5	70431	EWCBN	70431	EWCBN	70431	EWCBN	9
	# PIN, BEARING LOCK - DRIVEN	1	41808	316 SS	41809	ALLOY C	41810	ALLOY 20	31
/	# PIN, BEARING LOCK	3	41801	TFE	41801	TFE	41801	TFE	10

CORROSION / WEAR ("CW") - BOTH SHAFTS

	# SHAFT, DRIVE	1	70393	"CW"	70303	"CW"	70307	"CW"	4
B	# SHAFT, IDLER	1	70394	"CW"	70397	"CW"	70308	"CW"	5
	# 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	31
	# PIN, BEARING LOCK	3	41801	TFE	41801	TFE	41801	TFE	10

*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								
			316	i SS	ALLC	DY C	ALLC	IY 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										
	HOUSING, FRONT	1	70140	316SS	70141	ALLOY C	70144	ALLOY 20	3		
	CONTAINMENT CAN	1	79672	316SS	79631	ALLOY C	79631	ALLOY C	19		
COMMON	DRIVEN MAGNET ASSY	1	79691	31655	79692	ALLOY C	79693	ALLOY 20	18		
	# O-RING, FRONT HOUSING	1	W209787-TFE	TFE	W209787-TFE	TFE	W209787-TFE	TFE	28		
PARTS	BOLT, FRONT HOUSING	4	16717	188SS	16717	188SS	16717	188SS	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		

56C FRAME COMPONENTS

	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

140TC FRAME COMPONENTS

	CASING, 56C / 140TC FR	1	79610	ALUMINUM	79610	ALUMINUM	79610	ALUMINUM	20
0	DRIVE MAGNET ASSEMBLY, 140TC FR	1	79685	STEEL	79685	STEEL	79685	STEEL	21
	BOLT, MOTOR	4	W770425-STL	STEEL	W770425-STL	STEEL	W770425-STL	STEEL	25

71 METRIC FRAME 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

80 METRIC FRAME 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
к	MOTOR ADAPTOR, 80 FR METRIC	1	79680	ALUMINUM	79680	ALUMINUM	79680	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

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

DWG: GM2P206



		CERTIFIED	DRAWING	A Unit of IDEX	Corporation		
FOR:					SERIAL	NO.:	
CUSTOMER P.O.	N0:_				SERIAL	NO.:	
ITEM: GMC4		DATED:		BY :	PULSA.	ORDER NO.:	
TAGG I NG :							

TITLED DOMUNE DY SEMERATE









ITEM CLASS GMC4 = IK PRODUCT LINE = H / Isochem

GMC4 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GMC4

 PAGE:
 204

 DATE REV:
 11 / 12 / 12

 SUPERSEDES:
 05 / 31 / 07

					1	A particular states and a state of the state of the	n - Yan Yol In - Yan Yol In - Yan Yol In - Yan	STANDARD PU	MP MATERIAL		n - Yana Yari K., Yana Yari K., Yana Yari K., Ya	
						316	SS	ALLO	DY C	ALLC	IY 20	1
						(A, K,	OR U)	(C, M,	OR V)	(D, N,	OR W)	
			DE	SCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSI	ION	3	ST/		INTS							
		72	Ē	OUSING. CENTER FNPT	T	70014	316 SS	70016	ALLOY C	70015	ALLOY 20	2
			H	IOUSING, CENTER EBSPT	1	70020	316.55	70022	ALLOY C	70021	ALLOY 20	2
			H	IOUSING. CENTER ELANGED		NG040004-316	316.55	NG040004-HC0	ALLOY C	NG040004-020	ALLOY 20	2
			H	IOUSING, REAR	1	70214	316 55	70215	ALLOY C	70216	ALLOY 20	1
			# R	ING. RETAINING	6	76706	316.55	76701	ALLOY C	76701	ALLOY C	14
			# K	EY, METAL DRIVE GEAR	20	71930	316.55	71904	ALLOY C	71906	ALLOY 20	8
			# K	EY, PLASTIC DRIVE GEAR	*1	71929	316 SS	71903	ALLOY C	71905	ALLOY 20	8
			# K	EY, MTL/CBN IDLER GEAR	200	71930	316 SS	71904	ALLOY C	71906	ALLOY 20	8
			# K	EY, PLASTIC IDLER GEAR	1 1	71929	316 SS	71903	ALLOY C	71905	ALLOY 20	8
			# K	EY, MAGNETIC CPLG - DRIVE	1	71933	316 SS	71926	ALLOY C	71925	ALLOY 20	8
			# C	-RING, HOUSING	2	61101	TFE	61101	TFE	61101	TFE	12
			Р	IN, HOUSING	4	40801	316 SS	40801	316 SS	40801	316 SS	13
			В	OLT, HOUSING	4	72006	188 SS	72006	188 SS	72006	188 SS	15
			N	IUT, HOUSING BOLT	4	72101	188 SS	72101	188 SS	72101	188 SS	16
			N	IAMEPLATE	1	41210	188 SS	41210	188 SS	41210	188 SS	
										•		
POSIT	ION	s 9, :	10, ANG	11 OPTIONS - DELETE CORRESPONDING ST	ANDAF	ND PUMP COMPO	NENT FROM B/M					
			Н	IOUSING, CENTER - VENT FNPT		70014-2	316 SS	70016-2	ALLOY C	70015-2	ALLOY 20	2
			H	IOUSING, CENTER - VENT FBSPT	1	70020-2	316 SS	70022-2	ALLOY C	70021-2	ALLOY 20	2
			H	IOUSING, CENTER - VENT FLANGED		NG040008-316	316 SS	NG040008-HC0	ALLOY C	NG040008-020	ALLOY 20	2
2011010-0010			Р	LUG, 1/8" NPT	*1	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	27
		7	AH	IOUSING, REAR - BRG FLUSH	1	70212	316 SS	70234	ALLOY C	70233	ALLOY 20	1
			P	LUG, 1/8" NPT	*2	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	27
		C	# P	IN, BEARING LOCK	3-4	41802	ALLOY 20	41806	ALLOY C	41802	ALLOY 20	10
			B # C	D-RING, HOUSING	2	61104	SS / PFA	61104	SS / PFA	61104	SS / PFA	12
			# C	D-RING, FRONT HOUSING	1	61109	SS / PFA	61109	SS / PFA	61109	SS / PFA	28
L	D		# B	EARING, SLOTTED	5	70419	CARBON	70419	CARBON	70419	CARBON	9
E			# V	VEAR PLATE, SLOTTED	4	70509	CARBON	70509	CARBON	70509	CARBON	11
			# V	VEAR PLATE - NON-RECIRCULATION	4	70501	CARBON	70501	CARBON	70501	CARBON	11
			# V	VEAR PLATE - NON-RECIRC (NWG)		70536	CARBON	70536	CARBON	70536	CARBON	11
			F # V	VEAR PLATE - NON-RECIRCULATION		70504	TFE (GF)	70504	TFE (GF)	70504	TFE (GF)	11
			# V	VEAR PLATE - NON-RECIRCULATION	**4	70503	CERAMIC	70503	CERAMIC	70503	CERAMIC	11
		H	# V	VEAR PLATE - NON-RECIRCULATION		70535	PEEK	70535	PEEK	70535	PEEK	11
			M C	ONTAINMENT CAN	1	79631	ALLOY C	00000		10	100000	19
			# G	EAR, DRIVE / IDLER	1-2	70698	316 SS					6, 7
			# G	EAR, DRIVE / IDLER	1-2	70613	ALLOY C	70613	ALLOY C	70613	ALLOY C	6,7
			# C	EAR, DRIVE / IDLER	1-2	70633	ALLOY 20			70633	ALLOY 20	6,7
			# G	EAR, IDLER	1	70651	CARBON	70651	CARBON	70651	CARBON	7
			N # G	SEAR, DRIVE / IDLER	1-2	70623	TFE (GF)	70623	TFE (GF)	70623	TFE (GF)	6,7
			# 6	BEAR, DRIVE / IDLER	1-2	70677	PEEK	70677	PEEK	/06//	PEEK	6, /
			# K	EY, METAL DRIVE GEAR	*1	71931	316.55	71911	ALLOYC	71910	ALLOY 20	8
			Η K	EY, PLASTIC DRIVE GEAR		71932	316.55	71917	ALLOYC	71916	ALLOY 20	8
			# K	EY, MILY UBN IDLER GEAR	*1	71931	316.55	71911	ALLOYC	71910	ALLOY 20	8
	Г	+	# K	ET, PLASTIC IDLEK GEAK	3	71932	316 55	71917	ALLOY C	71916	ALLOY 20	10
				INVINITIAD ASST (WELDED) / (SAIVIAR)	1	79616	310.33	79643		79062		21
				NY WAG ASSY, SOU FK (SAIVIAK)	-	79604	STEEL	79604	STEEL	79604	STEEL	21
				NV MAG ASSY, 14010 FK (SAMAR)	1	79030	STEEL	79030	STEEL	79636	STEEL	21
				DV MAG ASSY 90 ED (SAMAD)		79680	STEEL	79699	STEEL	79680	STEEL	21
		L		DVN MAG ASSY (MELDED) / (SAMAR)	1	79616	316.55	79650		79665		19
	Ļ		н		-	COMBINE	DI IVUD		R	AND	C ALLOT ZU	1 10
						CONDINE		OF HONS	D D	ANV	3	

** QTY. 8 WHEN USING NARROW WIDTH GEARS.

*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M

DENOTES RECOMMENDED SPARE PART

DWG: GM4P204

GMC4 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GMC4

 PAGE:
 205

 DATE REV:
 11/12/12

 SUPERSEDES:
 11/12/04

		1			STANDARD PU	MP MATERIAL			1
			316 (A, K, C	SS DR U)	ALLO (C, M, (Y C DR V)	ALLO (D, N, C	720)RW)	1
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSITION 4 8	5 DRIVE AND IDLER GEAR MATERIAL								
А	# GEAR, DRIVE/IDLER	1-2	70695	316 SS					6, 7
С	# GEAR, DRIVE/IDLER	1-2	70638	ALLOY C	70638	ALLOY C	70638	ALLOY C	6, 7
D	# GEAR, DRIVE/IDLER	1-2	70642	ALLOY 20			70642	ALLOY 20	6, 7
К	# GEAR, IDLER	1	70611	CARBON	70611	CARBON	70611	CARBON	6, 7
т	# 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, 7
POSITION 6	WEAR PLATE MATERIAL - **QTY 8 WHEN USING NA	ARRO	W WIDTH GEARS						
к	# WEAR PLATE, RECIRCULATION		70531	CARBON	70531	CARBON	70531	CARBON	11
۳	# WEAR PLATE, RECIRCULATION	**1	70532	TFE (GF)	70532	TFE (GF)	70532	TFE (GF)	11
Z	# WEAR PLATE, RECIRCULATION	4	70533	CERAMIC	70533	CERAMIC	70533	CERAMIC	11
E	# WEAR PLATE, RECIRCULATION		70542	PEEK	70542	PEEK	70542	PEEK	11
POSITION 7 STANDARD C	SHAFT AND BEARING MATERIAL 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	5
к	# BEARING, DRIVE/IDLER SHAFT	5	70404	CARBON	70404	CARBON	70404	CARBON	9
	# PIN, BEARING LOCK - DRIVEN	1	41808	316 SS	41809	ALLOY C	41810	ALLOY 20	31
	# PIN, BEARING LOCK	3	41801	TFE	41801	TFE	41801	TFE	10
	# 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	5
E	# BEARING, DRIVE/IDLER SHAFT	5	70431	EWCBN	70431	EWCBN	70431	EWCBN	9
	# PIN, BEARING LOCK - DRIVEN	1	41808	316 SS	41809	ALLOY C	41810	ALLOY 20	31
	# PIN, BEARING LOCK	3	41801	TFE	41801	TFE	41801	TFE	10
	# 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	5
Т	# BEARING, DRIVE SHAFT	1	70401	TFE (GF)	70401	TFE (GF)	70401	TFE (GF)	9
	# BEARING, DRIVE/IDLER SHAFT	3	70402	TFE (GF)	70402	TFE (GF)	70402	TFE (GF)	9
	# PIN, BEARING LOCK	4	41801	TFE	41801	TFE	41801	TFE	10

EXTENDED/WEAR - BOTH SHAFTS

	# SHAFT, DRIVE	1	70393	"CW"	70303	"CW"	70307	"CW"	4
	# SHAFT, IDLER	1	70394	"CW"	70397	"CW"	70308	"CW"	5
С	# BEARING, DRIVE SHAFT	5	70431	EWCBN	70431	EWCBN	70431	EWCBN	9
	# PIN, BEARING LOCK - DRIVEN	1	41808	316 SS	41809	ALLOY C	41810	ALLOY 20	31
	# PIN, BEARING LOCK	3	41801	TFE	41801	TFE	41801	TFE	10

CORROSION/WEAR ("CW") - BOTH SHAFTS

	# SHAFT, DRIVE	1	70393	"CW"	70303	"CW"	70307	"CW"	4
	# SHAFT, IDLER	1	70394	"CW"	70397	"CW"	70308	"CW"	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	31
	# PIN, BEARING LOCK	3	41801	TFE	41801	TFE	41801	TFE	10

*COMPONENT 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 PUMP MATERIAL					
			316 (A, K,	i SS OR U)	ALLC (C, M,	DY C OR V)	ALLC (D, N,	IY 20 OR W)		
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM	
POSITION 8	MAGNETIC COUPLING COMPONENTS									
1	HOUSING, FRONT	1	70140	316 SS	70141	ALLOY C	70144	ALLOY 20	3	
	CONTAINMENT CAN	1	79672	316 SS	79631	ALLOY C	79631	ALLOY C	19	
	DRIVEN MAGNET ASSY	1	79691	316 SS	79692	ALLOY C	79693	ALLOY 20	18	
COMMON	# O-RING, FRONT HOUSING	1	W209787-TFE	TFE	W209787-TFE	TFE	W209787-TFE	TFE	28	
PARTS	BOLT, FRONT HOUSING	4	16717	188 SS	16717	188 SS	16717	188 SS	26	
	PLUG, 1 / 8" NPT	*2	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	27	
	SET SCREW, DRIVE MAGNET ASSY	1	W771004-019	STEEL	W771004-019	STEEL	W771004-019	STEEL	24	
2			11. · · · · · · · · · · · · · · · · · ·	11. · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	The the the the			
56C FRAME CO	OMPONENTS									
	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	
	и И			3		~	1			
140TC FRAME	COMPONENTS		2	· · · · · · · · · · · · · · · · · · ·						
	CASING, 56C / 140TC FR	1	79610	ALUMINUM	79610	ALUMINUM	79610	ALUMINUM	20	
0	DRIVE MAGNET ASSEMBLY, 140TC FR	1	79685	STEEL	79685	STEEL	79685	STEEL	21	
	BOLT, MOTOR	4	W770425-STL	STEEL	W770425-STL	STEEL	W770425-STL	STEEL	25	
9										
71 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	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	
-										
80 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	
к	MOTOR ADAPTOR, 80 FR METRIC	1	79680	ALUMINUM	79680	ALUMINUM	79680	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	

*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART DWG: GM4P206



		CERTIFIED	DRAWING	BY APOL	DEX Carparation		
FOR:					SERTAL	NO.:	
CUSTOMER P.O.	NO:_				SERIAL	NO.:	
ITEM: GMC6		_ DATED :		BY:	PULSA.	ORDER NO.: _	
TAGG I NG :							









ITEM CLASS GMC6 = IL PRODUCT LINE = H / ISOCHEM

ISOCHEM GMC6 SERIES PUMP CONSOLIDATED B / M

SECTION: PAGE: DATE REV.: SUPERSEDES: MODEL GMC6 204 06 / 24 / 14 11 / 12 / 12

				1			STANDARD PU	MP MATERIAL			1
					316	SS	ALLO	DY C	ALLC	Y 20	1
					(A, K,	OR U)	(C, M,	ORV)	(D, N,	ORW)	
			DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSITI		1	STANDARD PLIMP - NON-VARIABLE COMPONE	NTS							
1 00111			HOUSING CENTER ENPT		40002	316.55	40006		40008	ALLOY 20	2
			HOUSING CENTER EBSPT	1	40002	316.55	40023	ALLOY C	40017	ALLOY 20	2
			HOUSING, CENTER ELANGED		40011 NG040002 216	216.55	40023 NG040002 HC0	ALLOY C	40017 NG040002.020	ALLOY 20	2
			HOUSING REAR	1	40218	316 55	A0219	ALLOY C	10220	ALLOY 20	2
			# RING RETAINING	6	46210	316 55	46701	ALLOY C	46220	ALLOYC	1/
			# KING, REPAINING	0	40713	316.55	40701	ALLOY C	40701	ALLOY 20	8
			# KEY, DI ASTIC DRIVE GEAR	*1	41039	316.55	41904	ALLOY C	41905	ALLOY 20	8
			# KEY, MTL / CRN IDLER GEAR		41937	216 55	41902	ALLOY C	41905	ALLOY 20	8
			# KEY, DIASTIC IDLER GEAR	*1	41029	216.55	41904	ALLOY C	41906	ALLOY 20	0
			# KEY, MAGNETIC CPLG - DRIVEN	1	41938	316.55	41904		41900	ALLOY 20	8
			# REL, MAGNETIC CIEG - DRIVEN	1	41901	TEE	41504	TEF	41555	TEE	10
				2	41001	TEE	41001	TCC	41001	TEE	10
				2	41101	216.55	41101	216.55	41101	216.55	12
				4	40801	100.00	40801	100.00	62005	216.55	15
				4	62003	100 55	62003	100 33	62003	100.00	15
				4	62101	188 55	62101	100.55	62101	188 55	10
			NAMEPDATE	1	41210	100.22	41210	100.22	41210	100 22	
POSITI		9 11	AND 11 OPTIONS - DELETE CORRESPONDING ST								
105111	0143	- 	HOUSING CENTER - VENT ENPT		40002-2	316.55	40006-2		40008-2	ALLOY 20	12
			HOUSING CENTER - VENT ERSPT	1	40002 2	316 55	40023-2		400072	ALLOY 20	2
		1	HOUSING CENTER VENT FLANGED		40011-2 NG040000 316	316.55	40023-2 NG040009 HC0	ALLOY C	NG040009.020	ALLOY 20	2
				*1	W772565-316	316 55	52301	ALLOY C	52300	ALLOY 20	27
				1	40224	216.55	40221	ALLOY C	40224	ALLOY 20	1
		A		*2	40224 W/772565 216	216.55	52201	ALLOY C	52200	ALLOY 20	27
		- H	# DIN BEARING LOCK		41902	ALLOV 20	41806		41802	ALLOY 20	10
		~ F		2	41002	SS / DEA	41000	SS / DEA	41002	SS / DEA	10
		1	# O RING, FRONT HOUSING	1	41107	SS / DEA	41107	SS / DEA	41107	SS / DEA	28
			# BEARING SLOTTED	1	41112	CARBON	41112	CARBON	41112	CARBON	20
			# WEAR DIATE SIGTED	4	40420	CARBON	40420	CARBON	40420	CARBON	11
F			# WEAR DIATE SLOTTED	4	40511	TEE (GE)	40511	TEE (GE)	40511	TEE (GE)	11
L .			# WEAR DIATE, NON RECIRCULATION		40515	CARBON	40515	CARBON	40515		11
			# WEAR PLATE - NON-RECIRCULATION		40501	TEE (GE)	40501	TEE (GE)	40501	TEE (GE)	11
		F	# WEAR DEATE - NON-RECIRCULATION	4	40504	CERAMIC	40503	CERAMIC	40503	CERAMIC	11
			# WEAR DEATE - NON-RECIRCULATION		40505	DEEK	40523	DEEK	40523	DEEK	11
				1	40525		40323		40323		19
		F	# GEAR_DRIVE / IDLER	1-2	40727	316 55					6.7
			# GEAR, DRIVE / IDLER	1.2	40604		40604	ALLOY C	40604	ALLOYC	6.7
			# GEAR, DILER	1	40681	CARBON	40681	CARBON	40681	CARBON	7
			# GEAR, DRIVE / IDLER	1.2	40648	TEE (GE)	40648	TEE (GE)	40661	TEE (GE)	6.7
			# GEAR, DRIVE / IDLER	1.2	40717	PEEK	40717	PEEK	40717	PEEK	6.7
		·	# KEY METAL DRIVE GEAR	*1	41940	316.55	41913		41920	ALLOY 20	8
			# KEY, PLASTIC DRIVE GEAR	-	41941	316 55	41914		41921	ALLOY 20	8
			# KEY, MTL / CRN IDLER GEAR	*1	41940	316.55	41913		41920	ALLOY 20	8
			# KEY, PLASTIC IDLER GEAR	1	41941	316 55	41914		41920	ALLOY 20	8
	Г	+	DBVN MAG ASSY (WELDED) / (SAMAR)	1	41541	316 55	49643	ALLOY C	49664	ALLOY 20	18
			DRV MAG ASSY 56C FR (SAMAR)	1	49604	STEEL	49604	STEEL	49604	STEEL	21
			DRV MAG ASSY 140TC FR (SAMAR)		49004	STEEL	49004	STEEL	49004	STEEL	21
			DRV MAG ASSY 80 ER (SAMAR)	1	49030	STEEL	49030	STEEL	45050	STEEL	21
			DRV MAG ASSY 90 ER (SAMAR)		49736	STEEL	49736		45735 <u>4</u> 9726	STEEL	21
		" L	DRVN MAG ASSY (WELDED) / (SAMAR)	1	49616	316.55	49/30		49662		18
				-	COMBINE	PLIMP	OPTIONS	R	AND	S S	
				1	COMDINE	1011		U	AND	5	

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

DWG: GM6P204

ISOCHEM GMC6 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GMC6

 PAGE:
 205

 DATE REV.:
 11/12/12

 SUPERSEDES:
 11/12/04

					STANDARD PU	MP MATERIAL			
			31	S SS	ALLC	IY C	ALLO	Y 20	
			(A, K,	ORU)	(C, M,	OR V)	(D, N, I	OR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	IT
TION 4	& 5 DRIVE AND IDLER GEAR MATERIAL								
A	# GEAR, DRIVE / IDLER	1-2	40728	316 SS					(
C	# GEAR, DRIVE / IDLER	1-2	40668	ALLOY C	40668	ALLOY C	40668	ALLOY C	
D	# GEAR, DRIVE / IDLER	1-2	40674	ALLOY 20			40674	ALLOY 20	
К	# GEAR, IDLER	1	40622	CARBON	40622	CARBON	40622	CARBON	
T	# GEAR, DRIVE / IDLER	1-2	40600	TFE (GF)	40600	TFE (GF)	40600	TFE (GF)	
E	# GEAR, DRIVE / IDLER	1-2	40715	PEEK	40715	PEEK	40715	PEEK	
K	# WEAR PLATE, RECIRCULATION		40520	CARBON	40520	CARBON	40520	CARBON	1
К	# WEAR PLATE, RECIRCULATION		40520	CARBON	40520	CARBON	40520	CARBON	
T	# WEAR PLATE, RECIRCULATION	**4	40521	TFE (GF)	40521	TFE (GF)	40521	TFE (GF)	+
-	# WEAR PLATE RECIRCULATION	6 N2	40522	CERAMIC	40522	CERAMIC	40522	CERAMIC	
2	# WEAR I LATE, RECIRCOLATION								_
E	# WEAR PLATE, RECIRCULATION		40524	PEEK	40524	PEEK	40524	PEEK	
	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION		40524	PEEK	40524	PEEK	40524	PEEK	
E TION 7	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE		40524	9EEK 316 SS	40524	PEEK ALLOY C	40524	PEEK ALLOY 20	T
E TION 7 IDARD	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DRIVE		40524 40326 40360	PEEK 316 SS 316 SS	40524 40305 40362	PEEK ALLOY C ALLOY C	40524 40317 40374	PEEK ALLOY 20 ALLOY 20	
E TION 7 IDARD	# WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT	1 1 4	40524 40326 40360 40426	PEEK 316 SS 316 SS CARBON	40524 40305 40362 40426	PEEK ALLOY C ALLOY C CARBON	40524 40317 40374 40426	PEEK ALLOY 20 ALLOY 20 CARBON	
E TION 7 IDARD	# WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE	1 1 4 1	40524 40326 40360 40426 40326	PEEK 316 SS 316 SS CARBON 316 SS	40524 40305 40362 40426 40305	PEEK ALLOY C ALLOY C CARBON ALLOY C	40524 40317 40374 40426 40317	PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20	
E TION 7 IDARD K	# WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, DRIVE # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, DLER	1 1 4 1 1	40524 40326 40360 40426 40326 40326	PEEK 316 SS 316 SS CARBON 316 SS 316 SS	40524 40305 40362 40426 40305 40362	PEEK ALLOY C ALLOY C CARBON ALLOY C ALLOY C	40524 40317 40374 40426 40317 40374	PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 ALLOY 20	
E TION 7 IDARD	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DRIVE / IDLER SHAFT # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT	1 1 4 1 1 1 1 4	40524 40326 40360 40426 40326 40360 40430	PEEK 316 SS 316 SS CARBON 316 SS 316 SS EWCBN	40305 40305 40362 40426 40305 40362 40362	PEEK ALLOY C ALLOY C CARBON ALLOY C ALLOY C EWCBN	40524 40317 40374 40426 40317 40374 40374	PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 ALLOY 20 EWCBN	
E TION 7 IDARD K	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, DRIVE / IDLER SHAFT # SHAFT, DRIVE	1 1 4 1 1 4 1 4 1	40524 40524 40326 40360 40426 40326 40360 40430 40430	PEEK 316 SS 316 SS CARBON 316 SS 316 SS EWCBN 316 SS	40305 40362 40426 40305 40305 40362 40430 40305	PEEK ALLOY C ALLOY C CARBON ALLOY C ALLOY C EWCBN ALLOY C	40524 40317 40374 40426 40317 40374 40430 40430	PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20	
E TION 7 IDARD K L	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DLER # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DRIVE	1 1 4 1 1 4 1 1 1 1 1	40524 40326 40360 40426 40326 40326 40430 40326 40360	PEEK 316 SS 316 SS CARBON 316 SS EWCBN 316 SS 316 SS	40524 40305 40362 40426 40305 40362 40430 40305 40305	PEEK ALLOY C ALLOY C CARBON ALLOY C ALLOY C ALLOY C ALLOY C ALLOY C	40524 40317 40374 40426 40317 40374 40430 40430 40317 40374	PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 ALLOY 20 ALLOY 20 ALLOY 20 ALLOY 20	
E TION 7 IDARD K L T	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT	1 1 4 1 1 4 1 4 1 1 1 4	40524 40326 40360 40426 40326 40326 40360 40326 40360 40326	PEEK 316 SS 316 SS CARBON 316 SS EWCBN 316 SS 316 SS TFE (GF)	40524 40305 40362 40426 40305 40362 40430 40305 40362 40362 40425	PEEK ALLOY C ALLOY C CARBON ALLOY C EWCBN ALLOY C ALLOY C ALLOY C TFE (GF)	40524 40317 40374 40426 40317 40374 40430 40430 40374 40374	PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 TFE (GF)	
E TION 7 IDARD K L T	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, DLER # SHAFT, DLER # SHAFT, DLER # SHAFT, DLER # SHAFT, DRIVE / IDLER SHAFT # SHAFT, DLER # SHAFT, DLER	1 1 4 1 1 4 1 1 4 1 1 1 4	40524 40524 40326 40360 40426 40326 40360 40430 40326 40360 40425	PEEK 316 SS 316 SS CARBON 316 SS 316 SS EWCBN 316 SS 316 SS 316 SS TFE (GF)	40524 40305 40362 40426 40305 40362 40430 40305 40362 40362 40425	PEEK ALLOY C ALLOY C CARBON ALLOY C EWCBN ALLOY C ALLOY C ALLOY C TFE (GF)	40524 40317 40374 40426 40317 40374 40430 40317 40374 40374 40425	PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 ALLOY 20 ALLOY 20 ALLOY 20 TFE (GF)	
E TION 7 IDARD 7 K L T	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DRIVE / IDLER SHAFT # SHAFT, DRIVE / IDLER SHAFT # SHAFT, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DRIVE / IDLER SHAFT # SHAFT, DRIVE / IDLER SHAFT # SHAFT, DRIVE / IDLER SHAFT # SHAFT, DRIVE / IDLER SHAFT	1 1 4 1 1 4 1 1 4 1 1 4	40524 40524 40326 40360 40426 40326 40326 40326 40326 40326 40425	PEEK 316 SS 316 SS CARBON 316 SS 316 SS 316 SS 316 SS TFE (GF)	40524 40305 40362 40426 40305 40362 40430 40305 40362 40425	PEEK ALLOY C ALLOY C CARBON ALLOY C ALLOY C EWCBN ALLOY C ALLOY C TFE (GF)	40524 40317 40374 40426 40317 40374 40430 40317 40374 40430 40425	PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 ALLOY 20 ALLOY 20 ALLOY 20 TFE (GF)	
E TION 7 IDARD K L T T	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DRIVE / IDLER SHAFT # SHAFT, DRIVE / IDLER SHAFT	1 1 4 1 1 4 1 1 4 4 1 1 1 4	40524 40326 40360 40426 40326 40326 40360 40430 40326 40360 40425	PEEK 316 SS 316 SS CARBON 316 SS EWCBN 316 SS 316 SS TFE (GF) "CW"	40524 40305 40362 40426 40305 40362 40430 40305 40362 40425 40425	PEEK ALLOY C ALLOY C CARBON ALLOY C ALLOY C ALLOY C ALLOY C ALLOY C TFE (GF)	40524 40317 40374 40426 40317 40374 40430 40317 40374 40430 40374 40425	PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 ALLOY 20 ALLOY 20 ALLOY 20 TFE (GF)	
E TION 7 IDARD K L T T NDED /	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT / WEAR - BOTH SHAFTS # SHAFT, DRIVE # SHAFT, DRIVE	1 1 4 1 1 4 1 1 4 1 4 1 1 4 1 1 1 1 1	40524 40326 40360 40426 40326 40326 40430 40430 40425 40322 40322 40322 40323	PEEK 316 SS 316 SS CARBON 316 SS EWCBN 316 SS 316 SS TFE (GF) "CW"	40524 40305 40362 40426 40426 40305 40362 40430 40305 40362 40425 40425	PEEK ALLOY C ALLOY C CARBON ALLOY C EWCBN ALLOY C ALLOY C ALLOY C ALLOY C TFE (GF) "CW" "CW"	40524 40317 40374 40374 40426 40317 40374 40430 40317 40374 40425 40425 40318 40318 40319	PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 EWCBN ALLOY 20 ALLOY 20 ALLOY 20 TFE (GF) "CW" "CW"	

#	# SHAFT, DRIVE	1	40322	"CW"	40303	"CW"	40318	"CW"
В	# SHAFT, IDLER	1	40323	"CW"	40302	"CW"	40319	"CW"
	# BEARING, DRIVE / IDLER SHAFT	4	40429	SICBD	40429	SICBD	40429	SICBD

	# SHAFT, DRIVE	1	40326	316 SS	40305	ALLOY C	40317	ALLOY 20	4
Е	# SHAFT, IDLER	1	40360	316 SS	40362	ALLOY C	40374	ALLOY 20	5
	# BEARING, DRIVE / IDLER SHAFT	4	40431	PEEK	40431	PEEK	40431	PEEK	9

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

DWG: GM6P205

4 5 9

ISOCHEM GMC6 SERIES PUMP CONSOLIDATED B / M

SECTION: PAGE: DATE REV.: SUPERSEDES: MODEL GMC6 206 06/24/14 11/12/12

		I	STANDARD PUMP MATERIAL								
			316 (A, K,	i SS OR U)	ALLC (C, M,	OY C OR V)	ALLO (D, N, I	Y 20 OR W)	1		
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM		
POSITION 8	MAGNETIC COUPLING COMPONENTS										
	HOUSING, FRONT	1	40144	31655	40145	ALLOY C	40148	ALLOY 20	3		
	DRIVEN MAGNET ASSY	1	49738	316SS	49739	ALLOY C	49740	ALLOY 20	18		
	CONTAINMENT CAN	1	49672	31655	49605	ALLOY C	49605	ALLOY C	19		
	CASING	1	49610	ALUMINUM	49610	ALUMINUM	49610	ALUMINUM	20		
PARTS	# O-RING, FRONT HOUSING	1	W209729-TFE	TFE	W209729-TFE	TFE	W209729-TFE	TFE	28		
	BOLT, FRONT HOUSING	4	W770198-188	188 55	W770198-188	188 55	W770198-188	188 SS	26		
	PLUG, 1/8" NPT	*2	W772565-316	31655	52301	ALLOY C	52300	AILOY 20	27		
	-										
56C FRAME CO	OMPONENTS										
	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 FRAME	COMPONENTS										
	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 / 4 IC FRA			NC2000F7 CTI	CTCD	NC2000E7 CTL	(755)	NICODODEZ (T)	(755)	1 24		
	DRIVE MAGNET ASSEMBLY, 182 / 41C	1	NG200057-STL	STEEL	NG200057-STL	SIEEL	NG200057-STL	SIEEL	21		
		1	49627		49627	ALUMINUM	49627		29		
R	BOLT, CASING	4	16/22	STEEL	16722	SIEEL	16722	STEEL	35		
	BOLT, MOTOR	4	W770424-STL	SIEEL	W770424-STL	STEEL	W770424-STL	SIEEL	23		
	ADAPTOR, MOTOR 182 / 41C	1	NG110018-ALU	ALUMINUM	NG110018-ALU	ALUMINUM	NG110018-ALU		23		
	ADAPTOR, SCREW	4	NP999006-STI	SIEE	NP999006-STL	STEEL	NP999006-STI	STEE	23		
SO METRIC ED											
bu we nat no	DRIVE MAGNET ASSEMBLY 80 FR	1	/19733	STEEL	49733	STEEL	49733	STEEL	21		
	MOTOR SPOOL	1	49727		49733		49727		21		
к	BOLT CASING	4	16722	STEEL	16722	STEEL	16727	STIFI	25		
			NP990415-STI	STEEL	NP990415-STI		NP990415-STI		25		
	boet, motor	Ŧ	11 990419 572	57222	11 550415 512	JILL	(1) 550415 512	JILL	23		
90 METRIC FRA	AME COMPONENTS										
	DRIVE MAGNET ASSEMBLY, 90 FR	1	49734	STEEL	49734	STEEL	49734	STEEL	21		
.	MOTOR SPOOL	1	49728	ALUMINUM	49728	ALUMINUM	49728	ALUMINUM	29		
	BOIT, CASING	4	16722	STEFL	16722	STEFI	16722	STEEL	35		
	BOLT, MOTOR	4	NP990478-STL	STEEL	NP990478-STL	STEEL	NP990478-STL	STEEL	25		
									-		

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

STEEL DWG: GM6P206







ITEM CLASS GMH6 = IB PRODUCT LINE = H / ISOCHEM

ISOCHEM GMH6 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GMH6

 PAGE:
 200

 DATE REV.:
 11/12/12

 SUPERSEDES:
 07/13/04

				STANDARD PUMP MATERIAL							
				316	i SS	ALLC	'C	ALLO	Y 20		
				(A, K,	(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 3	STANDARD PUMP - NON-VARIBLE COMPONENTS										
	HOUSING, FRONT		1	49678	316 SS	49679	ALLOY C	49680	ALLOY 20	1	
	HOUSING, CENTER	FNPT		40002	316 SS	40006	ALLOY C	40008	ALLOY 20	2	
	HOUSING, CENTER	FBSPT	1	40011	316 SS	40023	ALLOY C	40017	ALLOY 20	2	
	HOUSING, CENTER	FLANGED		NG040002-316	316 SS	NG040002-HC0	ALLOY C	NG040002-020	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		*1	41937	316 SS	41903	ALLOY C	41905	ALLOY 20	8	
	# KEY, MTL/CBN IDLER GEAR		*1	41937	316 SS	41903	ALLOY C	41905	ALLOY 20	9	
	# KEY, PLASTIC IDLER GEAR		T and	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	62005	188 SS	62005	188 SS	62005	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		

POSITION 9, 10, AND 11 OPTIONS - DELETE CORRESPONDING STANDARD PUMP COMPONENT FROM B/M

		v	HOUSING, CENTER - VENT FNPT	1	40002-2	316 SS	40006-2	ALLOY C	40008-2	ALLOY 20	2
			HOUSING, CENTER - VENT FBSPT		40011-2	316 SS	40023-2	ALLOY C	40017-2	ALLOY 20	2
			HOUSING, CENTER - VENT FLANGED		NG040009-316	316 SS	NG040009-HC0	ALLOY C	NG040009-020	ALLOY 20	2
			PLUG, 1/8" NPT	*1	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	62
		٨	HOUSING, REAR - BRG FLUSH	1	40247-2	316 SS	40248-2	ALLOY C	40249-2	ALLOY 20	3
		~	PLUG, 1/8" NPT		W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	62
	C		# 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
			# 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
D			# BEARING, SLOTTED 5/8"	0-2	40440	CARBON	40440	CARBON	40440	CARBON	13
		R	HOUSING, REAR - RECIRCULATION	1	40247-3	316 SS	40248-3	ALLOY C	40249-3	ALLOY 20	3
			# BUSHING, RECIRCULATION (.060)	2	99618-06	TFE	99618-06	TFE	99618-06	TFE	23
			# WEAR PLATE, RECIRCULATION	4	40527	CARBON	40527	CARBON	40527	CARBON	15
			# WEAR PLATE, RECIRCULATION		40529	TFE (GF)	40529	TFE (GF)	40529	TFE (GF)	15
			# WEAR PLATE, RECIRCULATION		40528	CERAMIC	40528	CERAMIC	40528	CERAMIC	15
			# WEAR PLATE, RECIRCULATION		40530	PEEK	40530	PEEK	40530	PEEK	15
		W	DRIVEN MAGNET ASSY (WELDED)	1	49715	316 SS	49716	ALLOY C	49717	ALLOY 20	24

*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART DWG: GMH6P200
ISOCHEM GMH6 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GMH6

 PAGE:
 201

 DATE REV.:
 11/12/12

 SUPERSEDES:
 11/12/04

				(STANDARD PUI				1
				316	SS	ALLO	YC	ALLO	Y 20	
				(A. K. (ORU)	(C. M.)	OR V)	(D. N. 1	OR W)	
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
			1000000		NUCCOURT (#121 #121 #20					
POSITION 4 8	H GEAR DRIVE (ID) ER	2/4"	1 1 2	40720	216.55	[]				67
A	# GEAR, DRIVE/IDLER	3/4	1-2	40729	310.32	40612	ALLOY C	40612	ALLOY C	6,7
	# GEAR, DRIVE/IDLER	5/4	1-2	40612	ALLUY	40612	ALLOY	40612	ALLOYC	6, 7
LE	# GEAR, IDLER	5/8	1	40613	PEEK	40613	PEEK	40613	PEEK	1
POSITION 6	WEAR PLATE MATERIAL									
к	# WEAR PLATE, SLOTTED		10000 Barrowski (* 1990)	40511	CARBON	40511	CARBON	40511	CARBON	15
т	# WEAR PLATE, SLOTTED		_	40513	TFE (GF)	40513	TFE (GF)	40513	TFE (GF)	15
Z	# WEAR PLATE, SLOTTED		4	40525	CERAMIC	40525	CERAMIC	40525	CERAMIC	15
E	# WEAR PLATE, SLOTTED			40526	PEEK	40526	PEEK	40526	PEEK	15
POSITION 7	SHAFT AND BEARING MATERIAL									
STANDARD C	ONSTRUCTION							-		00 - 11 - 00 - 11 01
	# SHAFT, DRIVE		1	41415	316 SS	41423	ALLOY C	41424	ALLOY 20	4
	# SHAFT, IDLER	5/8"	1	41434	316 SS	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	41434	316 SS	41435	ALLOY C	41436	ALLOY 20	5
т	# 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
EXTENDED LI	FE - BEARINGS									-
	# SHAFT, DRIVE		1	41415	316 SS	41423	ALLOY C	41424	ALLOY 20	4
	# SHAFT, IDLER	5/8"	1	41434	316 SS	41435	ALLOY C	41436	ALLOY 20	5
E	# SHAFT, IDLER METAL GEAR	3/4"		41428	316 SS	41429	ALLOY C	41430	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
EXTENDED LI	H SUAET DRIVE		1	41425	CW/ 21655	41426	CW/ ALV C	41427	CW/ ALVOO	1
	# SHAFT IDLED	5./Q"	-	41425	CW / 31655	41420	CW/ALTC	41427	CW/ALIZO	- 4 E
- C	# SHAFT IDLER METAL GEAD	2/4"	1	41437	CW/ 21655	41430		41433	CW/ALIZO	5
	# BEADING DRIVE/IDLED SHAFT	2/4	24	41431	EM/CBN	41432	EWICEN	41455	EWICEN	12 12
	# BEARING, DRIVE/IDEER SHAFT	5/9"	0.2	40437	EWCBN	40437	EWCBN	40437	EWCBN	13
	# BLAKING, IDEEK SHAFT	5/6	0-2	40435	LWCBN	40455	LWCBN	40455	LVVCDN	13
CORROSION/	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 / 316 SS	41432	CW / ALY C	41433	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 DWG: GMH6P201

ISOCHEM GMH6 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GMH6

 PAGE:
 202

 DATE REV.:
 11 / 12 / 12

 SUPERSEDES:
 02 / 12 / 01

		1			STANDARD PU	MP MATERIAL			1
			316	SS	ALLO	DY C	ALLC	Y 20	
			(A, K,	ORU)	(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	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
143/5TC , 184	HOLDER, DRIVE MAGNET	1	49705	STEEL	49705	STEEL	49705	STEEL	30
COMMON	HOLDER, DRIVE MAGNET	1	49705	STEEL	49705	STEEL	49705	STEEL	30
PARTS	ADAPTOR, MOTOR	1	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	36
22222424448	BOLT, MOTOR	4	W770425-188	188 SS	W770425-188	188 SS	W770425-188	188 SS	41
SINGLE CONT/	AINMENT CAN COMPONENTS		3						-
0	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	31
1014.1	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	28
DOUBLE CONT	TAINMENT CAN COMPONENTS					, 			
DOUBLE CONT	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	32
	AINMENT CAN COMPONENTS DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT	1	49704 49698	STEEL 316 SS	49704 49699	STEEL ALLOY C	49704 49700	STEEL ALLOY 20	32 27
DOUBLE CONT	AINMENT CAN COMPONENTS DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT CAN	1 1 *1	49704 49698 W210422-TFE	STEEL 316 SS TFE	49704 49699 W210422-TFE	STEEL ALLOY C TFE	49704 49700 W210422-TFE	STEEL ALLOY 20 TFE	32 27 25

COMMON	HOLDER, DRIVE MAGNET	1	49718	STEEL	49718	SIEEL	49718	STEEL	30
DADTS	ADAPTOR, MOTOR	1	Y1101000-ALU	ALUMINUM	Y1101000-ALU	ALUMINUM	Y1101000-ALU	ALUMINUM	36
FANTS	BOLT, MOTOR (METRIC)	4	W770533-188	188 SS	W770533-188	188 SS	W770533-188	188 SS	41
SINGLE CONTA	AINMENT CAN COMPONENTS								creeconmenter -
n n	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	31
5	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	28
DOUBLE CONT	TAINMENT CAN COMPONENTS								
	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	32
	CAN ASSY, CONTAINMENT	1	49698	316 SS	49699	ALLOY C	49700	ALLOY 20	27
u 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

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

DWG: GMH6P202

ISOCHEM GMH6 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GMH6

 PAGE:
 203

 DATE REV.:
 11/12/12

 SUPERSEDES:
 02/12/01

					STANDARD PU	MP MATERIAL			1
			316 (A, K,	SS ORU)	ALL((C, M,	DY C OR V)	ALLC (D, N,	IY 20 OR W)	1
	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	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
182/41C FRAN		1	40757	IRON	49757	IRON	49757	IRON	30
		1	45757 V1100700 ALLL		43737 V1100700 AUU	ALLINAINUINA	43737 V1100700 AUU		30
		1	11100700-ALU	ALOWINOW	11100700-ALU	STEEL	1100700-ALU	ALOIVIINOIVI	50
COMMON		4	V1101600 STL	STEEL	V1101600 STL	STEEL	V1101600 STL		69
PARTS		1	M770425 199	3 TEEL 199 CC	11101000-31L	3 TEEL	W/770435 199	31EEL 100.00	41
		4	W771109 199	100 33	W770423-100	100 33	W/771109 199	100 33	67
	WASHER, LOCK	4	W771100-100	100 33	W/771004.030	100 33	W/771004.030	100 33	25
SINGLECONTA		2	44771004-030	SIEEL	W771004-030	SIEEL	W771004-050	31000	35
SINGLE CONTA	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	40702	STEEL	21
R		1	49702	316.55	49702	316.00	49702	216.55	20
DOUBLE CONT		L 1	43713	310.33	43713	510 35	43713	310.33	20
	DRIVE MAGNET ASSY	1	49704	STEFI	49704	STEF	49704	STEEL	32
	CAN ASSY, CONTAINMENT	1	49698	316.55	49699	ALLOY C	49700	ALLOY 20	27
т	# 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
2	•								
213/5TC FRAN			40750	1500	40750	IDON	40750	1201	1 20
	HOLDER, DRIVE MAGNET		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
	SCREW, SET	2	W771004-046	STEEL	W771004-046	STEEL	W771004-046	STEEL	35
SINGLE CONTA									
W	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	31
757	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	28

DOUBLE CONTAINMENT CAN COMPONENTS DRIVE MAGNET ASSY 1 49704 STEEL 49704 STEEL 49704 STEEL 32 CAN ASSY, CONTAINMENT 1 49698 316 SS 49699 ALLOY C 49700 ALLOY 20 27 Y # O RING, CONTAINMENT CAN *1 W210422-TFE W210422-TFE W210422-TFE 25 TFE TFE TFE 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: GMH6P203







ITEM CLASS GMC8 = IP PRODUCT LINE = H / ISOCHEM

ISOCHEM GMC8 SERIES PUMP CONSOLIDATED B / M

SECTION: PAGE: DATE REV.: MODEL GMC8 SUPERSEDES:

204 06 / 24 / 14 11 / 12 / 12

	[
		316	SS	ALLC	DY C	ALLO		
		(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 3	STANDARD PUMP - NON-VARIA	BLE 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		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			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		<u> </u>	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	188.55	41210	188 55	

POSITIONS 9, 10, AND 11 OPTIONS - DELETE CORRESPONDING STANDARD PUMP COMPONENT FROM B / M

				HOUSING, CENTER - VENT FNPT		40052-2	316 SS	40053-2	ALLOY C	40054-2	ALLOY 20	2
			.,	HOUSING, CENTER - VENT FBSPT	1	40064-2	316 SS	40065-2	ALLOY C	40066-2	ALLOY 20	2
			ľ	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
			Δ	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
		С		# 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
Ε				# WEAR PLATE, SLOTTED	-	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		40504	TFE (GF)	40504	TFE (GF)	40504	TFE (GF)	11
			'	# WEAR PLATE - NON-RECIRCULATION	4	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	

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

DWG: GM8P204

ISOCHEM GMC8 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GMC8

 PAGE:
 205

 DATE REV.:
 11/12/12

 SUPERSEDES:
 11/12/04

		1			STANDARD PUN	AP MATERIAL			
			316	SS	ALLO	YC	ALLO	Y 20	1
			(A, K, C	RU)	(C, M, C	DR V)	(D, N, C	DR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSITION 4 8	§ 5 DRIVE AND IDLER GEAR MATERIAL								
A	# GEAR, DRIVE / IDLER	1-2	40684	316 SS					6, 7
C	# 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		2	40691	ALLOY 20	6, 7
К	# GEAR, IDLER	1	40623	CARBON	40623	CARBON	40623	CARBON	7
Т	# 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				-				
к	# WEAR PLATE, RECIRCULATION		40520	CARBON	40520	CARBON	40520	CARBON	11
Т	# WEAR PLATE, RECIRCULATION	4	40521	TFE (GF)	40521	TFE (GF)	40521	TFE (GF)	11
Z	# WEAR PLATE, RECIRCULATION		40522	CERAMIC	40522	CERAMIC	40522	CERAMIC	11
E	# WEAR PLATE, RECIRCULATION		40524	PEEK	40524	PEEK	40524	PEEK	11
POSITION 7	SHAFT AND BEARING MATERIAL								
STANDARD C	CONSTRUCTION								_
	# 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	5
	# BEARING, DRIVE / IDLER SHAFT	4	40426	CARBON	40426	CARBON	40426	CARBON	9
	# SHAFT, DRIVE	1	40336	ALLOY 20	40316	ALLOY C	40336	ALLOY 20	4
Ľ	# SHAFT, IDLER	1	40350	ALLOY 20	40346	ALLOY C	40350	ALLOY 20	5
	# BEARING, DRIVE / IDLER SHAFT	4	40430	EWCBN	40430	EWCBN	40430	EWCBN	9
	# SHAFT, DRIVE	1	40336	ALLOY 20	40316	ALLOY C	40336	ALLOY 20	4
т	# SHAFT, IDLER	1	40350	ALLOY 20	40346	ALLOY C	40350	ALLOY 20	5
	# BEARING, DRIVE / IDLER SHAFT	4	40425	TFE (GF)	40425	TFE (GF)	40425	TFE (GF)	9
EXTENDED /	WEAR - BOTH SHAFTS								
	# SHAFT, DRIVE	1	40332	"CW"	40306	"CW"	40332	"CW"	4
C	# SHAFT, IDLER	1	40333	"CW"	40308	"CW"	40333	"CW"	5
	# BEARING, DRIVE / IDLER SHAFT	4	40430	EWCBN	40430	EWCBN	40430	EWCBN	9
r									
CORROSION	/ WEAR ("CW") - BOTH SHAFTS							(12)) (2)	_
201	# SHAFT, DRIVE	1	40332	"CW"	40306	"CW"	40332	"CW"	4
В	# SHAFT, IDLER	1	40333	"CW"	40308	"CW"	40333	"CW"	5
	# BEARING, DRIVE / IDLER SHAFT	4	40429	SICBD	40429	SICBD	40429	SICBD	9

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

DWG: GM8P205

ISOCHEM GMC8 SERIES PUMP CONSOLIDATED B / M

SECTION: PAGE: DATE REV.: SUPERSEDES: 11/12/12

MODEL GMC8 206 06 / 24 / 14

				STANDARD PU	MP MATERIAL			
		316	i SS	ALLOY C		ALLOY 20		1
		(A, K,	OR U)	(C, M, OR V)		(D, N, OR W)		
DESCRIPTION	QTY	PART NUMBER	PART NUMBER MATERIAL P		MATERIAL	PART NUMBER	MATERIAL	ITEM

POSITION 8 MAGNETIC COUPLING COMPONENTS

1 OSTITION O	infinite ine coor and comit offering								
	HOUSING, FRONT	1	40144	316 SS	40145	ALLOY C	40148	ALLOY 20	3
	DRIVEN MAGNET ASSY	1	49738	316 \$\$	49739	ALLOY C	49740	ALLOY 20	18
COMMON	CONTAINMENT CAN	1	49672	316 SS	49605	ALLOY C	49605	ALLOY C	19
COMMON PARTS	CASING	1	49610	ALUMINUM	49610	ALUMINUM	49610	ALUMINUM	20
PARTS	# O-RING, FRONT HOUSING	1	W209729-TFE	TFE	W209729-TFE	TFE	W209729-TFE	TFE	28
Ľ	BOLT, FRONT HOUSING	4	W770198-188	188 55	W770198-188	188 SS	W770198-188	188 55	26
	PLUG, 1/8" NPT	*2	W772565-316	316 SS	52301	ALLOY C	52300	AILOY 20	27

56C FRAME COMPONENTS

F	DRIVE MAGNET ASSEMBLY, 56C FR	1	49731	STEEL	49731	STEEL	49731	STEEL	21
	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 FRAME COMPONENTS

0	DRIVE MAGNET ASSEMBLY, 140TC FR	1	49732	STEEL	49732	STEEL	49732	STEEL	21
	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

182/4 TC FRAME COMPONENTS

	DRIVE MAGNET ASSEMBLY, 56C FR	1	NG200057-STL	STEEL	NG200057-STL	STEEL	NG200057-STL	STEEL	21
	MOTOR SPOOL	1	49627	ALUMINUM	49627	ALUMINUM	49627	ALUMINUM	29
D	BOLT, CASING	4	16722	STEEL	16722	STEEL	16722	STEEL	35
N	BOLT, MOTOR	4	W770424-STL	STEEL	W770424-STL	STEEL	W770424-STL	STEEL	23
-	ADAPTOR, MOTOR	1	NG110018-ALU	ALUMINUM	NG110018-ALU	ALUMINUM	NG110018-ALU	ALUMINUM	
	BOIT, ADAPTOR	4	NP999006-STL	STEFI	NP999006-STI	STEFI	NP999006-STI	STEEL	

80 METRIC FRAME COMPONENTS

	DRIVE MAGNET ASSEMBLY, 80 FR	1	49733	STEEL	49733	STEEL	49733	STEEL	21
v	MOTOR SPOOL	1	49727	ALUMINUM	49727	ALUMINUM	49727	ALUMINUM	29
ĸ	BOLT, CASING	4	16722	STEEL	16722	STEEL	16722	STEEL	35
	BOLT, MOTOR	4	NP990415-STL	STEEL	NP990415-STL	STEEL	NP990415-STL	STEEL	25

90 METRIC FRAME COMPONENTS

DRIVE MAGNET ASSEMBLY, 90 FR	1	49734	STEEL	49734	STEEL	49734	STEEL	21
MOTOR SPOOL	1	49728	ALUMINUM	49728	ALUMINUM	49728	ALUMINUM	29
BOLT, CASING	4	16722	STEFL	16722	STEFL	16722	STEEL	35
BOLT, MOTOR	4	NP990478-STL	STEEL	NP990478-STL	STEEL	NP990478-STL	STEEL	25

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

DWG: GM8P206







ITEM CLASS GMH8 = IH PRODUCT LINE = H / ISOCHEM

ISOCHEM GMH8 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GMH8

 PAGE:
 200

 DATE REV.:
 11 / 12 / 12

 SUPERSEDES:
 11 / 03 / 06

			1			STANDARD PU	MP MATERIAL			1
				316	SS	ALLO	ру с	ALLC	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 :	3	STANDARD PUMP - NON-VARIBLE COMPONENT	s							
		HOUSING, FRONT	1	49678	316 SS	49679	ALLOY C	49680	ALLOY 20	1
		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		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	*2	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	
POSITION	9, 10, /	AND 11 OPTIONS - DELETE CORRESPONDING STAN	DARD	PUMP COMPONEN	T FROM B/M	100200000000000000000000000000000000000	10.8.00.000000000000	and a standard to a standard	111 March 1010	
		HOUSING, CENTER - VENT FNPT		40052-2	316 SS	40053-2	ALLOY C	40054-2	ALLOY 20	2
	V	HOUSING, CENTER - VENT FBSPT	1	40064-2	316 SS	40065-2	ALLOY C	40066-2	ALLOY 20	2
	2000	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
	A	HOUSING, REAR -BRG FLUSH	1	40247-2	316 SS	40248-2	ALLOY C	40249-2	ALLOY 20	3
	_	PLUG, 1/8" NPT	*2	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	62
		# 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
		# 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
D		# 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	TFE	99618-06	TFE	99618-06	TFE	23
	R	# WEAR PLATE, RECIRCULATION		40527	CARBON	40527	CARBON	40527	CARBON	15
		# WEAR PLATE, RECIRCULATION	4	40529	TFE (GF)	40529	TFE (GF)	40529	TFE (GF)	15
		# WEAR PLATE, RECIRCULATION		40528	CERAMIC	40528	CERAMIC	40528	CERAMIC	15
		# WEAR PLATE, RECIRCULATION	1	40530	PEEK	40530	PEEK	40530	PEEK	15

316 SS

49715

1

49716

ALLOY C

49717

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

W DRIVEN MAGNET ASSY (WELDED)

ALLOY 20 DWG: GMH8P200

24

ISOCHEM GMH8 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GMH8

 PAGE:
 201

 DATE REV.:
 11 / 12 / 12

 SUPERSEDES:
 11 / 12 / 04

			1			STANDARD PU	MP MATERIAL			1
				316	SS	ALLC	DY C	ALLC)Y 20	1
				(A, K,	ORU)	(C, M,	OR V)	(D, N,	OR W)	
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSITION 4 8	3 5 DRIVE AND IDLER GEAR MATERIAL									
A	# GEAR, DRIVE / IDLER	3/4"	1-2	40730	316 SS					6,7
C	# 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
т	# GEAR, IDLER	5/8"	0-1	40608	TFE (GF)	40608	TFE (GF)	40608	TFE (GF)	7
Ē	# GEAR, IDLER	5/8"		40609	PEEK	40609	PEEK	40609	PEEK	7
K				40511	CARBON	40511	CARBON	40511	CARBON	15
т	#WEAR PLATE SLOTTED		-	40513	TEE (GE)	40513	TEE (GE)	40513	TEE (GE)	15
Z	# WEAR PLATE, SLOTTED		4	40525	CERAMIC	40525	CERAMIC	40525	CERAMIC	15
F	# WEAR PLATE SLOTTED			40526	PEEK	40526	PEEK	40526	PFFK	15
2										
POSITION 7	SHAFT AND BEARING MATERIAL									
STANDARD L				41270	216.66	41071	ALLOYC	41272	ALL OV 20	
	# SHAFT, DRIVE	E /0"	1	41370	316.55	41371	ALLOYC	41372	ALLOY 20	4
K	# SHAFT, IDLER	5/6 2///	- 1	41337	316 33	41336	ALLOYC	41559	ALLOY 20	5
IX.	# SHAFT, IDLER METAL GEAR	3/4 2/4"	2.4	41342	CARDON	41343	CARRON	41544	CARBON	12
	# BEARING IDLER SHAFT	5/8"	0.2	40430	CARBON	40430	CARBON	40430	CARBON	12
	# SHAFT DRIVE	570	1	41370	316.55	41371		40432		4
	# SHAFT IDIER	5/8"	-	41337	316.55	41338	ALLOY C	41339	ALLOY 20	5
Ĕ	# SHAFT IDLER METAL GEAR	3/4"	1	41342	316.55	41343	ALLOY C	41344	ALLOY 20	5
	# BEARING, DRIVE / IDLER SHAFT	3/4"	2-4	40437	FWCBN	40437	FWCBN	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"	4	41337	316 SS	41338	ALLOY C	41339	ALLOY 20	5
т	# SHAFT, IDLER METAL GEAR	3/4"	4	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
SYTEMOLO /										
CATENDED /	H SUAET DRIVE		1 242	41206	CW(/ 216 55	41207	CINI / ALV C	41209	CWL/ALVOD	1
	# SHAFT, DRIVE	E /0"	L L	41390	CW/31655	41397		41398	CW/ALT20	4
c		2/0	1	41334	CW / 216 55	41333		41330	CW/ALTZU	
8 1	# BEARING DRIVE SHAFT	3/4	2.1	41303	EW/CBN	41300	EW/CRN	41307	EW/CRN	12 1
	# BEARING IDLER SHAFT	5/8"	0.2	40433	EWCBN	40433	EWCBN	40433	EWCBN	12,1
	# DEAMING, IDEEN SHAFT	570	0-2	40433	Evectiv	40455	LWCDIV	40433	EWCON	15
CORROSION	/ WEAR ("CW") - BOTH SHAFTS									
	HSUAET DRIVE		1 1	41206	CIN / 210 00	41207	CWL/ALV C	41209	CIAL LALVOD	1.4

	# SHAFT, DRIVE		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 DWG: GMH8P201

ISOCHEM GMH8 SERIES PUMP CONSOLIDATED B / M

SECTION: MODEL GMH8 PAGE: DATE REV.: SUPERSEDES: 202 11 / 12 / 12 02 / 12 / 01

					STANDARD PU	MP MATERIAL			1
			316 (A, K, I	316 SS (A, K, OR U)		DY C OR V)	ALLOY 20 (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	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
143 / 5TC, 184	C FRAME COMPONENTS								
COMMON	HOLDER, DRIVE MAGNET	1	49705	STEEL	49705	STEEL	49705	STEEL	30
PARTS	ADAPTOR, MOTOR	1	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	36
TAND	BOLT, MOTOR	4	W770425-188	188 SS	W770425-188	188 SS	W770425-188	188 SS	41
SINGLE CONT/	AINMENT CAN COMPONENTS						20		
0	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	31
Ŭ	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	28
DOUBLE CONT	FAINMENT CAN COMPONENTS			,					
	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	32
	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

100 FRAME COMPONENTS

COMMON	HOLDER, DRIVE MAGNET	1	49718	STEEL	49718	STEEL	49718	STEEL	30
DARTS	ADAPTOR, MOTOR	1	Y1101000-ALU	ALUMINUM	Y1101000-ALU	ALUMINUM	Y1101000-ALU	ALUMINUM	36
PANTS	BOLT, MOTOR (METRIC)	4	W770533-188	188 SS	W770533-188	188 SS	W770533-188	188 SS	41
SINGLE CONT.	AINMENT CAN COMPONENTS								creeconmenter -
	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	31
5	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	28
DOUBLE CON	TAINMENT CAN COMPONENTS								
	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	32
0	CAN ASSY, CONTAINMENT	1	49698	316 SS	49699	ALLOY C	49700	ALLOY 20	27
u 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

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

DWG: GMH8P202

ISOCHEM GMH8 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GMH8

 PAGE:
 203

 DATE REV.:
 11 / 12 / 12

 SUPERSEDES:
 02 / 12 / 01

			6		STANDARD PU	IMP MATERIAL			1
			316 (A. K.	S SS OR U)	ALL (C. M.	OY C OR V)	ALLC (D. N.)Y 20 OR W)	1
	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	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
182 / 4TC FRAI		1	40757	IRON	49757	IRON	49757	IRON	30
		1	¥3737		¥3757		V1100700-AUU		36
	SCREW MOTOR	4	W/770580-STI	STEEL	W770580-STI	STEEL	W770580-STI	STEEL	69
COMMON		1	V1101600-STL	STEEL	V1101600-STL	STEEL	V1101600-STL	STEEL	68
PARTS		1	W770/25-188	199.55	W770425-188	188 55	W770425-188	199.55	41
	WASHER LOCK	4	W771108-188	188 55	W771108-188	188 55	W771108-188	188 55	67
	SCREW SET	2	W771004-030	STEEL	W771004-030	STEEL	W771004-030	STEEL	35
SINGLE CONTA		2	11/11004 050	DILL	W//1004 050	DILLL	W//1004 050	DICEC	55
_	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	31
R	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316.55	28
DOUBLE CONT	AINMENT CAN COMPONENTS								
	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	32
-	CAN ASSY, CONTAINMENT	1	49698	316 SS	49699	ALLOY C	49700	ALLOY 20	27
1	# 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
213 / 5TC FRA		4	40750	IDON	40750	IDON	40750	IDON	1 20
		1	49758	IRUN	49758		49758		30
6014101	ADAPTOR, MOTOR	1	¥1100700-ALU		Y1100700-ALU	ALUMINUM	Y1100700-ALU		36
DADTE	SCREW, MUTUR	4	VV / /UU68-188	188 22	W//UU68-188	188.55	W//UU68-188	188.22	69
PARTS	ADAPTOR, PLATE	1	Y1101700-STL	SIEEL	¥1101700-STL	STEEL	¥1101700-STL	STEEL	68
	BULT, ADAPTOR PLATE	4	W//0426-188	188 55	W//U426-188	188 22	W//U426-188	188.22	41
		2	w771004-046	STEEL	W771004-046	STEEL	W771004-046	STEEL	35
SINGLE CONTA		2.242	40703	STEEL	40702	STEEL	40702	CTEF!	1 21
W	DRIVE IVIAGINET ASST	1	49702	SIEEL	49702	SIEEL	49702	SIEEL	31

	RING, CONTAINMENT CAN	<u></u>	49719	310.55	49719	316.22	49719	310.22	28					
DOUBLE CON	DOUBLE CONTAINMENT CAN COMPONENTS													
	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	32					
	CAN ASSY, CONTAINMENT	1	49698	316 SS	49699	ALLOY C	49700	ALLOY 20	27					
1 5	# 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					

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

DWG: GMH8P203







SPELOVERNME FOR PAR-SW Mains





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	5 SS	ALLO	DY C	ALLC)Y 20	1
	EXAMPLE: GM12XXXXXX		(A, K,	ORU)	(C, M,	OR V)	(D, N,	OR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSITION 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	
POSITION 9, 1	10, AND 11 OPTIONS - DELETE CORRESPONDING ST	ANDARI		ENT FROM B / M					
	HOUSING, CENTER - VENT FNPT	1	90001-2	316 SS	90006-2	ALLOY C	90005-2	ALLOY 20	2
N	HOUSING, CENTER - VENT FBSPT	1	90012-2	316 SS	90013-2	ALLOY C	90014-2	ALLOY 20	2
V	HOUSING, CENTER - VENT FLGD		90003-2	316 SS	90007-2	ALLOY C	90010-2	ALLOY 20	2
	PLUG, 1 / 8" NPT	*1	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	62
ñ	# O-RING, HOUSING	2	91106	SS / PFA	91106	SS / PFA	91106	SS / PFA	16
D	# O-RING, CONTAINMENT CAN	1-2	W212172-001	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
ñ	# WEAR PLATE, RECIRCULATION		90516	CARBON	90516	CARBON	90516	CARBON	15
<u>n</u>	# WEAR PLATE, RECIRCULATION		90517	TFE (GF)	90517	TFE (GF)	90517	TFE (GF)	15
		4							1

	# WEAR PLATE, RECIRCULATION	24	90518	CERAMIC	90518	CERAMIC	90518	CERAMIC	15
	# WEAR PLATE, RECIRCULATION		90519	PEEK	90519	PEEK	90519	PEEK	15
W	DRIVEN MAGNET ASSY (WELDED)	1	99663	316 SS	99664	ALLOY C	99665	ALLOY 20	24
	# DRIVE SHAFT	1	90367	316 SS					
	IDLER SHAFT ASSEMBLY	1			i desta i			No.	19
	SHAFT, SLEEVED IDLER 3/4"	1	90397	316 SS					
HF	# SLEEVE SHAFT 1"	2	90391	316 SS					1
	# SCREW, SLEEVE	2	W770021-316	316 SS					
	# GEAR, IDLER 3/4"	1	90677	PEEK		CLASSING MACRONIC	And a second	Antonio Antonio	1
	# BEARING, SLTD DRV / IDL SHAFT	4	90437	EWCBN					

DWG: GM12P200

*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M

**QTY (2) WHEN PUMP HAS FNPT OR FBSPT CENTER HOUSING;

COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B/M

DENOTES RECOMMENDED SPARE PART

ISOCHEM GM12 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GM12

 PAGE:
 201

 DATE REV.:
 11/12/12

 SUPERSEDES:
 11/12/04

			i	<u> </u>		STANDARD PL	MP MATERIAL		•	1
				316	5 SS	ALL	ру с	ALLO)Y 20	
				(A, K,	ORU)	(C, M,	OR V)	(D, N,	OR W)	
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
			-Jack St. St.		50500000000000000000000000000000000000	. Take of the second of the second				Letter Coulomb
POSITION 4 8	5 DRIVE AND IDLER GEAR MATERIAL	5400				1			· · · · · · · · · · · · · · · · · · ·	1
A	# GEAR, DRIVE/IDLER	1"	1-2	90679	316 SS					6, 7
C	# 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									1
K	# WEAR PLATE, SLOTTED		-	90503	CARBON	90503	CARBON	90503	CARBUN	15
T	# WEAR PLATE, SLOTTED		4	90510	TFE (GF)	90510	TFE (GF)	90510	TFE (GF)	15
Z	# WEAR PLATE, SLOTTED		-	90512	CERAMIC	90512	CERAMIC	90512	CERAMIC	15
E	# WEAR PLATE, SLOTTED		-	90515	PEEK	90515	PEEK	90515	PEEK	15
DOCITION D										
POSITION 7	SHAFT AND BEARING MATERIAL									
STANDARD CO		41		00127	DAVODAL	00.127	DIVCDN	00427	ENVODIN	12.12
	# BEARING, DRIVE/IDLER SHAF	1	4	90437	EWCBN	90437	EWCBN	90437	EWCBN	12, 13
	# SHAFT, DRIVE		1	90367	316.55	90368	ALLOYC	90369	ALLUY 20	4
	# SHAFT, IDLER (METAL GEAR)	1"	1	90308	316 SS	90318	ALLOY C	90364	ALLOY 20	5
L L	IDLER SHAFT ASSEMBLY	3/4"								
	SHAFT, SLEEVED IDLER		1	90397	316 SS	90398	ALLOY C	90399	ALLOY 20	5
	SHAFT, SLEEVED IDLER (CBN GR)			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
	# BEARING, DRIVE/IDLER SHAFT	1"	4	90428	TFE (GF)	90428	TFE (GF)	90428	TFE (GF)	12, 13
	# SHAFT, DRIVE		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
	IDLER SHAFT ASSEMBLY	3/4"	1		Contract of Contra	Contract of				
	SHAFT, SLEEVED IDLER		1	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	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 SHAFT	1"	4	90441	EWCBN	90441	EWCBN	90441	EWCBN	12,13
	# SHAFT, DRIVE		1	90367	316 SS	90368	ALLOY C	90369	ALLOY 20	4
	# SHAFT IDLEB (METAL GEAR)	1"		90308	316.55	90318	ALLOY C	90364	ALLOY 20	5
	IDLER SHAFT ASSEMBLY	3/4"	1							100
4	SHAFT SLEEVED IDLER	0/ 1		90397	316.55	90398		90399	ALL OV 20	5
	SHAFT SLEEVED IDLER (CBN GR)		1	99669	316.55	99670	ALLOY C	99671	ALLOV 20	5
	# CLEEVE SUART	្នាប	2	00201	216.55	00202	ALLOY C	00202	ALLOV 20	42
	# SCREW SLEEVE	100	2	30331	316.55	90332 W(770031 UC0	ALLOY C	30333	ALLOY 20	42
2	# SCREW, SLEEVE		Z	W//0021-510	310.33	W770021-HC0	ALLOTC	W770021-020	ALLOT 20	45
	FAR - BOTH SHAFTS									
Enteroco, n	# BEABING DRIVE/IDLER SHAFT	1"	4	90437	FWCBN	90437	EWCBN	90437	EWCBN	12 13
	# SHAFT DRIVE	*	1	90370	CW/31655	90371	CW / ALY C	90372	CW / ALY20	4
	# SHAFT IDLER (METAL GEAR)	11	-	90373	CW / 316 55	90374	CW / ALY C	90375	CW / ALV20	5
	IDLER SHAFT ASSEMBLY	3/4"	1	50575	cw/ 51035	50574	CTT / ALT C	30373	C117 AE120	
C	SHAFT SLEEVED IDLER	5/4		00307	316.55	00308	ALLOVIC	00300	ALLOV 20	5
	SHAFT, SLEEVED IDLER (CRN CR)		1	00660	316.55	00670	ALLOY C	00671	ALLOY 20	5
	HOLED CLAST	19		99009	510 33	99070	ALLOTC	99071	ALLOT 20	42
	# SLEEVE, SHAFT	1	2	90394	UW / 316 33	90395		90396	CW/ALTZU	42
	# SCREWV, SLEEVE		Z	W//0021-510	510.33	W770021-HC0	ALLOTIC	W770021-020	ALLOT 20	45
CORROSION/	WEAR ("CW") - BOTH SHAFTS									
controliony	# BEARING DRIVE/IDLER SHAFT	17	4	90/139	SICBD	90/139	SICBD	90/139	SICBD	12 13
	# SHAFT DRIVE	±	1	90370	CW/ 316 55	90371	CWLAIVE	90372	CIM / ALV20	12, 13
	HOUAET IDLED (METAL CEAD)	10	1	00373	CW/ 31655	90371		00275	CW/ALIZU	- 4 c
		1	1	30373	CAA \ 270.32	50374	CVV / ALT C	90375	CWY / ALTZU	2
В		3/4	-		210.00					100 A
	SHAFT, SLEEVED IDLER		1	90397	310 35	90398	ALLOYC	90399	ALLOY 20	5
	SHAFT, SLEEVED IDLER (CBN GR)	20		99669	316 55	99670	ALLOY C	99671	ALLOY 20	5
1	# SLEEVE, SHAFT	1	2	90394	CW/31655	90392	LW / ALY C	90396	CW/ALY20	42

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

2 W770021-316

316 SS

W770021-HC0

ALLOY C

W770021-020

SCREW, SLEEVE

ALLOY 20 DWG: GM12P201

43

ISOCHEM GM12 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GM12

 PAGE:
 202

 DATE REV:
 11 / 12 / 12

 SUPERSEDES:
 04 / 01 / 98

			STANDARD PUMP MATERIAL						
			316	SS	ALLO	YC	ALLO	Y 20	
			(A, K, I	DRU)	(C, M, (DR V)	(D, N, 0	OR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	IT
SITION 8	MAGNETIC COUPLING COMPONENTS								
	DRIVEN MAGNET ASSY	1	99626	316 SS	99627	ALLOY C	99628	ALLOY 20	
	BOLT, FRONT HOUSING/ADAPTOR	*4	W770426-188	188 SS	W770426-188	188 SS	W770426-188	188 SS	
	# O-RING, CONTAINMENT CAN	*1	W212172-TFE	TFE	W212172-TFE	TFE	W212172-TFE	TFE	
	SCREW, SET	2	W771004-030	STL	W771004-030	STL	W771004-030	STL	
	PIN, DRIVE MAGNET/HOLDER	4	W771209-003	STL	W771209-003	STL	W771209-003	STL	
	SCREW, SKHD DRIVE MAGNET/HOLDER	4	W770027-188	188 SS	W770027-188	188 SS	W770027-188	188 SS	Т
COMMON	CAN, CONTAINMENT	1	99600	ALLOY C	99600	ALLOY C	99600	ALLOY C	
PARTS	SCREW, CONTAINMENT CAN RING	12	W770021-188	188 SS	W770021-188	188 SS	W770021-188	188 SS	
	HOLDER, DRIVE MAGNET	1	99640	STL	99640	STL	99640	STL	
	ADAPTOR, POWERFRAME	1	99619	ALU	99619	ALU	99619	ALU	
	LUG, LIFTING	1	W212304-STL	STL	W212304-STL	STL	W212304-STL	STL	
	PIN	6	99641	188 SS	99641	188 SS	99641	188 SS	t
	SPRING	6	99642	188 SS	99642	188 SS	99642	188 SS	t
	BOLT. POWERERAME	*4	W770426-188	188 55	W770426-188	188.55	W770426-188	188.55	t
ANDARD U.	.S. MOUNTING AINMENT CAN COMPONENTS								
ANDARD U	.S. MOUNTING AINMENT CAN COMPONENTS								
NDARD U	AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT	1	99648	STL	99648	STL	99648	STL	I
NDARD U. GLE CONT. R	S. MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY	1	99648 99635	STL STL	99648 99635	STL STL	99648 99635	STL STL	
ANDARD U. IGLE CONT, R	S. MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN	1	99648 99635 99630	STL STL 316 SS	99648 99635 99630	STL STL 316 SS	99648 99635 99630	STL STL 316 SS	
ANDARD U. IGLE CONT. R	AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS	1 1 1	99648 99635 99630	STL STL 316 SS	99648 99635 99630	STL STL 316 SS	99648 99635 99630	STL STL 316 SS	
R NDARD U. R R UBLE CON	S. MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN DOWERFRAME µ1 125 INPUT SHAFT	1 1 1	99648 99635 99630	STL STL 316 SS	99648 99635 99630	STL STL 316 SS	99648 99635 99630	STL STL 316 SS	
R R UBLE CONT	S. MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY	1 1 1 1	99648 99635 99630 99648 99648	STL STL 316 SS STL STL	99648 99635 99630 99648 99648	STL STL 316 SS STL STL	99648 99635 99630 99648 99648	STL STL 316 SS STL STL	
R R UBLE CONT	S. MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY. CONTAINMENT		99648 99635 99630 99648 99638 99631	STL STL 316 SS STL STL 316 SS	99648 99635 99630 99648 99638 99638	STL STL 316 SS STL STL	99648 99635 99630 99648 99638 99638	STL STL 316 SS STL STL	
INDARD U. GLE CONT. R UBLE CON	S. MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # 0 RING CONTAINMENT	1 1 1 1 1 1 1 1 1 *1	99648 99635 99630 99648 99638 99631 W212172-TEE	STL STL 316 SS STL STL 316 SS TFF	99648 99635 99630 99648 99638 99632 W212172_TEE	STL STL 316 SS STL STL ALLOY C TFF	99648 99635 99630 99648 99638 99633 99633 W212172-TEE	STL STL 316 SS STL STL ALLOY 20 TFF	
R R UBLE CONT	S. MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT # O RING, CONTAINMENT WIPELE, 1/8" NPT X 2.00	1 1 1 1 1 1 1 *1 2	99648 99635 99630 99648 99638 99631 W212172-TFE W773965-208	STL STL 316 SS STL STL 316 SS TFE 316 SS	99648 99635 99630 99648 99638 99632 W212172-TFE W773965-235	STL STL 316 SS STL STL ALLOY C TFE ALLOY C	99648 99635 99630 99648 99638 99633 W212172-TFE W773965-145	STL STL 316 SS STL STL ALLOY 20 TFE ALLOY 20	
ANDARD U. IGLE CONT. R UBLE CON T	AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT 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	1 1 1 1 1 1 1 1 2	99648 99635 99630 99638 99638 99638 99631 W212172-TFE W773965-208	STL STL 316 SS STL STL 316 SS TFE 316 SS	99648 99635 99630 99648 99638 99632 W212172-TFE W773965-235	STL STL 316 SS STL STL ALLOY C TFE ALLOY C	99648 99635 99630 99648 99638 99633 W212172-TFE W773965-145	STL STL 316 SS STL STL ALLOY 20 TFE ALLOY 20	
INDARD U. IGLE CONT R UBLE CON T INDARD M GLE CONT.	AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT 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 TETRIC MOUNTING AINMENT CAN COMPONENTS	1 1 1 1 1 1 1 2	99648 99635 99630 99648 99638 99638 99631 W212172-TFE W773965-208	STL STL 316 SS STL STL 316 SS TFE 316 SS	99648 99635 99630 99648 99638 99632 W212172-TFE W773965-235	STL STL 316 SS STL STL ALLOY C TFE ALLOY C	99648 99635 99630 99648 99638 99633 W212172-TFE W773965-145	STL STL 316 SS STL STL ALLOY 20 TFE ALLOY 20	
INDARD U. GLE CONT. R UBLE CONT T INDARD M GLE CONT.	AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT 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 AINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT	1 1 1 1 1 *1 2	99648 99635 99630 99638 99638 99631 W212172-TFE W773965-208 99649	STL STL 316 SS STL STL 316 SS TFE 316 SS STL	99648 99635 99630 99648 99638 99632 W212172-TFE W773965-235	STL STL 316 SS STL STL ALLOY C TFE ALLOY C STL	99648 99635 99630 99648 99638 99633 W212172-TFE W773965-145 99649	STL STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL	
INDARD U. GLE CONT. R UBLE CON T T INDARD M GLE CONT.	S. MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # 0 RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00 IETRIC MOUNTING AINMENT CAN COMPONENTS POWERRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY	1 1 1 1 1 1 *1 2	99648 99635 99630 99648 99638 99631 W212172-TFE W773965-208 99649 99649 99635	STL STL 316 SS STL STL STL 316 SS TFE 316 SS STL STL STL STL	99648 99635 99630 99648 99638 99632 W212172-TFE W773965-235 99649 99635	STL STL 316 SS STL STL ALLOY C TFE ALLOY C STL STL	99648 99635 99630 99648 99638 99633 W212172-TFE W773965-145 99649 99649 99635	STL STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL STL	
INDARD U. GLE CONT. R UBLE CON T INDARD M GLE CONT.	AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # 0 RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00 ETRIC MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN	1 1 1 1 1 1 *1 2 1 1 1 1 1	99648 99635 99630 99638 99638 99631 W212172-TFE W773965-208 99649 99649 99635 99630	STL STL 316 SS STL	99648 99635 99630 99648 99638 99632 W212172-TFE W773965-235 99649 99649 99635 99630	STL 316 SS STL STL ALLOY C TFE ALLOY C STL STL 316 SS	99648 99635 99630 99648 99638 99633 W212172-TFE W773965-145 99649 99635 99630	STL STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL STL STL 316 SS	
NDARD U. GLE CONT. R UBLE CON T INDARD M GLE CONT. U	AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT 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 AINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS	1 1 1 1 1 *1 2 1 1 1 1 1 1 1	99648 99635 99630 99638 99638 99631 W212172-TFE W773965-208 99649 99649 99635 99630	STL STL 316 SS STL STL 316 SS TFE 316 SS STL STE 316 SS	99648 99635 99630 99648 99632 W212172-TFE W773965-235 99649 99635 99630	STL STL 316 SS STL STL ALLOY C TFE ALLOY C STL STL 316 SS	99648 99635 99630 99648 99638 99633 W212172-TFE W773965-145 99649 99635 99630	STL STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL STL STL 316 SS	
INDARD U. GLE CONT. R UBLE CON T INDARD M GLE CONT. U UBLE CON	AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # 0 RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00 ETRIC MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT TAINMENT CAN COMPONENTS POWERRAME µ28 MM INPUT SHAFT	1 1 1 1 1 •1 •1 2	99648 99635 99630 99638 99638 99631 W212172-TFE W773965-208 99649 99649 99635 99630	STL STL 316 SS STL STL 316 SS TFE 316 SS STL	99648 99635 99630 99648 99638 99632 W212172-TFE W773965-235 99649 99649 99635 99630	STL STL 316 SS STL STL ALLOY C TFE ALLOY C STL STL 316 SS STL	99648 99635 99630 99648 99638 99633 W212172-TFE W773965-145 99649 99635 99630	STL STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL STL 316 SS STL	
NDARD U. GLE CONT, R UBLE CON T T NDARD M GLE CONT, U UBLE CON	S. MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # 0 RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00 IETRIC MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN	1 1 1 1 1 1 1 *1 2 1 1 1 1 1 1 1	99648 99635 99630 99638 99631 W212172-TFE W773965-208 99649 99649 99635 99649 99649	STL STL 316 SS STL STL 316 SS TFE 316 SS STL STE 316 SS STL STE STL STL STL STL STL STL STL STL	99648 99635 99630 99648 99638 99632 W212172-TFE W773965-235 W773965-235 99649 99635 99630	STL STL 316 SS STL STL ALLOY C TFE ALLOY C STL STL 316 SS STL STL	99648 99635 99630 99648 99638 99633 W212172-TFE W773965-145 99649 99635 99630	STL STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL STL 316 SS STL STL STL	
NDARD U. GLE CONT, R UBLE CON T T NDARD M GLE CONT, U UBLE CON	S. MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # 0 RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00 IETRIC MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT CAN ASSY, CONTAINMENT	1 1 1 1 1 1 *1 2 2 1 1 1 1 1 1 1 1 1	99648 99635 99630 99638 99631 W212172-TFE W773965-208 99649 99635 99630 99638 99631	STL STL 316 SS STL STL 316 SS TFE 316 SS STL STL	99648 99635 99630 99638 99632 W212172-TFE W773965-235 W773965-235 99649 99635 99630 99649 99638 99638	STL STL 316 SS STL STL ALLOY C TFE ALLOY C STL 316 SS STL STL STL ALLOY C	99648 99635 99630 99638 99638 99633 W212172-TFE W773965-145 99649 99635 99630 99638 99638 99633	STL STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL STL 316 SS STL STL STL STL STL	
INDARD U. GLE CONT. R UBLE CONT T INDARD M GLE CONT. U UBLE CONT	AINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00 IETRIC MOUNTING AINMENT CAN COMPONENTS POWERFRAME µ28 MMI INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME µ28 MMI INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN	1 1 1 1 1 1 *1 2 2 1 1 1 1 1 1 1 1 1 1 1	99648 99635 99630 99638 99631 W212172-TFE W773965-208 99649 99635 99630 99630 99639 99631 W212172-TFE	STL STL 316 SS STL 316 SS TFE 316 SS STL STL 316 SS STL 316 SS STL STL 316 SS TFE	99648 99635 99630 99630 99632 W212172-TFE W773965-235 99649 99635 99630 99638 99638 99632 W212172-TFE	STL STL 316 SS STL STL ALLOY C TFE ALLOY C STL 316 SS STL STL STL STL ALLOY C TFE	99648 99635 99630 99638 99638 99633 W212172-TFE W773965-145 W773965-145 99649 99635 99630 99638 99638 99638	STL STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL STL 316 SS STL STL STL STL STL STL STL	



ITEM CLASS GM16 = IU PRODUCT LINE = H / ISOCHEM

ISOCHEM GM16 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GM16

 PAGE:
 200

 DATE REV.:
 11/12/12

 SUPERSEDES:
 02/23/10

						STANDARD PUMP MATERIAL						
	STRUCTURED WITH NO DASHES			316	SS	ALLO	YC	ALLO'	Y 20	1		
	EXAMPLE: GM16XXXXXX			(U)	(V)		(W)	1)			
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM		
POSITION 3	STANDARD PUMP - NON-VARIAB		ENTS									
	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"	*0-2	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	TFE	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			

в	# O-RING, HOUSING	2	91106	SS / PFA	91106	SS / PFA	91106	SS / PFA	16
	# O-RING, CONTAINMENT CAN	1-2	W212172-001	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
P	# WEAR PLATE, RECIRCULATION	4	90516	CARBON	90516	CARBON	90516	CARBON	15
2	# 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
	# IDLER SHAFT, 1" DIA	1	NG070021-316	316 SS					
HF	# GEAR, IDLER, 1" DIA	1	NG010026-PK1	316 SS					199
<i></i>	# 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: PAGE: DATE REV.: SUPERSEDES: MODEL GM16

201 10/17/14 11/12/12

				-						٦
				31(5.55			ALLC)Y 20	-
				(1	U)	()	/)	(V	N)	
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSITION 4.8	5 DRIVE AND IDLER GEAR MATERIAL									
	# GEAR DRIVE/IDLER	1"	1.2	90668	316.55					67
A C	# GEAR, DRIVE/IDLER	1"	1-2	90667	AUDY C	90667		90667		6.7
ĸ	# GEAR, DI FR	3/4"	1-2	90676	CARBON	90676	CARBON	90676	CARBON	7
T	# GEAR, IDLER	3/4"	$+_{0,1}$	90670	TEE (GE)	90670	TEE (GE)	90670	TEE (GE)	7
 F	# GEAR, IDLER	3/4"	+	90678	PFFK	90678	PFFK	90678	PEFK	7
		-/ -								
POSITION 6	WEAR PLATE MATERIAL									
к	# WEAR PLATE, SLOTTED			90503	CARBON	90503	CARBON	90503	CARBON	15
Т	# WEAR PLATE, SLOTTED		٦.	90510	TFE (GF)	90510	TFE (GF)	90510	TFE (GF)	15
Z	# WEAR PLATE, SLOTTED		14	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	DINSTRUCTION									_
	# 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"	-							
	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"	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"	<u>۲</u>							
	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
EXTEN DED/W	EAR - BOTH SHAFTS									
	# BEARING, DRIVE/IDLER SHAFT	1"	4	90437	EWCBN	90437	EWCBN	90437	EWCBN	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
С	IDLER SHAFT ASSEMBLY	3/4"	-							<u> </u>
	SHAFT, SLEEVED IDLER		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
CORROSION										
CORROSION	# REARING DRIVE/IDLER SHAFT	1"	1	00430	SICRD	00//30	SICRD	00/30	SICRD	12 12
	# SHAFT DRIVE	т	1	90383	CW / 216 SS	90383	CW / ALV C	90384	CW / A1V20	12, 13
	a sine i, Drive		1 1	30302	CM1 210 22	30303	CM/ALIC	30304		1 4

	# DEARING, DRIVE/IDEER SHAFT	T	4	50435	SICBD	90439	SICBD	50435	SICBD	12, 15
	# 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"	т							
	SHAFT, SLEEVED IDLER		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

 PAGE:
 202

 DATE REV.:
 11/12/12

 SUPERSEDES:
 04/01/98

					STANDARD PUI	MP MATERIAL			
			316	SS	ALLO	Y C	ALLO	Y 20	1
			(U)	(V)	N)	/)	
	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	37
	PIN	6	99641	188 SS	99641	188 SS	99641	188 SS	39
	SPRING	6	99642	188 SS	99642	188 SS	99642	188 SS	40
	BOLT, POWERFRAME ADAPTOR	*4	W770426-188	188 SS	W770426-188	188 SS	W770426-188	188 SS	41

STANDARD U.S. MOUNTING

SINGLE CONTAINMENT CAN COMPONENTS

	POWERFRAME µ1.125 INPUT SHAFT	1	99648	STL	99648	STL	99648	STL	38
R	DRIVE MAGNET ASSY	1	99636	STL	99636	STL	99636	STL	31
	RING, CONTAINMENT CAN	1	99630	316 SS	99630	316 SS	99630	316 SS	28

DOUBLE CONTAINMENT CAN COMPONENTS

	POWERFRAME µ1.125 INPUT SHAFT	1	99648	STL	99648	STL	99648	STL	38
	DRIVE MAGNET ASSY	1	99639	STL	99639	STL	99639	STL	32
т	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	W773965-020	ALLOY 20	66

STANDARD METRIC MOUNTING

SINGLE CON	TAINMENT CAN COMPONENTS			2			121
	POWERFRAME µ28 MM INPUT SHAFT	1	99649	STL	99649	STL	99649
U	DRIVE MAGNET ASSY	1	99636	STL	99636	STL	99636
	RING, CONTAINMENT CAN	1	99630	316 SS	99630	316 SS	99630

DOUBLE CONTAINMENT CAN COMPONENTS

DOODLE CO	Control Contro								
-	POWERFRAME µ24 MM INPUT SHAFT	1	99649	STL	99649	STL	99649	STL	38
	DRIVE MAGNET ASSY	1	99639	STL	99639	STL	99639	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: GM16P202

STL

STL

316 SS

38 31

28







ISOCHEM	GMH8	AND	CENTF	RIFUG	AL PC	WER	FR	AME
ASSEMBLY	COMF	POSIT	E BIL	L OF	MATE	RIAL	S	FOR
Y0400600) - (SUF	FIX	FROM	BELOW	N)			

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			
PARTS	OIL SEAL	* 2	Y1501100-000	STL/NTR	6			
	.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	З			
	POWER FRAME	1	Y0400500-IRN	CAST IRON	1			
.625 DIA. OUTPUT SHAFT FOR UP TO 3 H.P. INPUT								
SUFFIX	DRIVE SHAFT	1	Y0701600-000	STEEL	2			
-000	BEARING, SINGLE ROW	* 2	Y0800800-000	STEEL	9			
.875 DIA. OUTPUT SHAFT FOR UP TO 5 H.P. INPUT								
SUFFIX	DRIVE SHAFT	1	Y0701800-000	STEEL	2			
-001	BEARING, SINGLE ROW	* 2	Y0800800-000	STEEL	9			
.875 DIA. OUTPUT SHAFT FOR UP TO 10 H.P. INPUT								
	DRIVE SHAFT	1	Y0701500-000	STEEL	2			
SUFF1X -002	BEARING, SINGLE ROW	* 1	Y0800800-000	STEEL	9			
	BEARING, DOUBLE ROW	* 1	Y0800700-000	STEEL	10			
.875 DIA. OUTPUT SHAFT FOR UP TO 20 H.P. INPUT								
SUFFIX	DRIVE SHAFT	1	Y0701700-000	STEEL	2			
-003	BEARING, DOUBLE ROW	* 2	Y0800700-000	STEEL	10			

* DENOTES RECOMMENDED SPARE PARTS

Servilsareenen Par 19-Feb-2004 18:15:17





ISOCHEM GEAR POWER FRAME ASSEMBLY COMPOSITE BILL OF MATERIALS FOR 99648 AND 99649 (METRIC)	SECTION: PAGE: DATE REV.: SUPERSEDES:	DRIVES 191 12/02/94 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	З
BOLT, BEARING CAP	4	W770402-STL	STL	4
LOCK WASHER, BOLT	4	W771117-STL	STL	5
+SEAL, LIP	2	99644	NTR	6
+0 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

+ DENOTES RECOMMENDED SPARE PART.

SPURSAFEEDER POR 19-Feb-2004 18:11:59




Isochem[®] GEARCHEM PUMPS

Bulletin No. IOM-ISO-4000-Rev B

---- - - - -



Pulsafeeder, Inc. A unit of IDEX Corporation 2883 Brighton Hnrietta Town Line Road Rochester NY 14623 +1 (585) 292-8000 www.pulsa.com pulsa@idexcorp.com

