

# Installation, Operation & Maintenance Instruction

All Models





Bulletin No. IOM-ISO-4000-Rev B

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# INTRODUCTION

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

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

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

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

Isochem pumps have all the standard features of ECO Gearchem pumps such as continuous operation over wide temperature and pressure variations, 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.
- 2. 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.

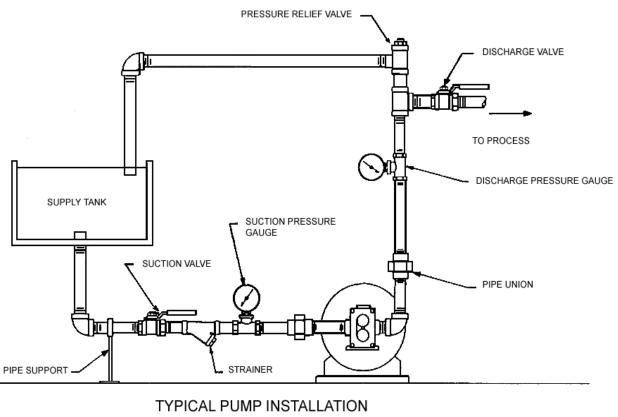


FIG. 1

- 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

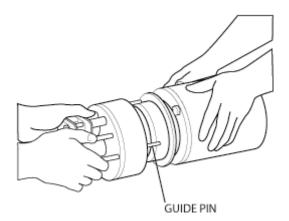
KOPkits. The basic Isochem KOPkit consists of the following parts which are recommended as spares:

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

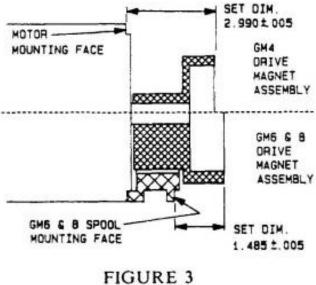
- 1. Close discharge and suction valves.
- 2. Disconnect power source to motor.
- 3. Flush and drain pump then remove pump from the piping. Do not forget to drain the can area through the front housing drain plug (Item 27).
- 4. Remove motor bolts (Item 25). Metric motors use an extra motor adaptor (Item 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.
- 7. 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	<ol> <li>Pump not primed.</li> <li>Suction and/or discharge valve closed.</li> <li>Wrong direction or rotation.</li> <li>Suction plugged.</li> <li>Air leak in suction.</li> <li>Suction lift too high.</li> <li>Motor incorrectly wired.</li> <li>Magnetic coupling decoupled.</li> </ol>	<ol> <li>Prime pump.</li> <li>Open valves.</li> <li>Reverse rotation</li> <li>Eliminate plug.</li> <li>Locate and repair leak.</li> <li>Do not exceed vapor pressure of liquid.</li> <li>Check wiring diagram.</li> <li>Stop motor, eliminate discharge blockage or foreign matter jamming gears and restart. If no blockage exists verify motor supply voltage is correct and restart.</li> </ol>
LOW LIQUID DELIVERY	<ol> <li>Discharge pressure higher than expected.</li> <li>Air leak in suction.</li> <li>Rotational speed incorrect.</li> <li>Inlet obstructed or clogged.</li> <li>Liquid viscosity higher than expected.</li> <li>Leaky relief valve.</li> <li>Insufficient suction pressure.</li> <li>Worn or damaged internal parts.</li> </ol>	<ol> <li>Reduce pressure.</li> <li>Locate and repair leak.</li> <li>Check speed and wiring</li> <li>Remove restriction</li> <li>Thin liquid or accept lower flow.</li> <li>Correctly set or repair relief valve.</li> <li>Increase suction pressure.</li> <li>Inspect and repair as required.</li> </ol>
PUMP GRADUALLY LOSES PRIME	<ol> <li>Air leak in suction</li> <li>Suction lift too high.</li> <li>Air or gas in liquid.</li> <li>Pump worn or damaged.</li> </ol>	<ol> <li>Locate and repair leak.</li> <li>Increase suction pressure.</li> <li>Eliminate air or gas.</li> <li>Inspect and repair as required.</li> </ol>
PUMP NOISY	<ol> <li>Pump cavitating.</li> <li>Pump worn or damaged.</li> <li>Air or gas in liquid.</li> <li>Foreign particles in liquid.</li> </ol>	<ol> <li>Increase suction pressure to provide sufficient NPSH</li> <li>Inspect and repair as required.</li> <li>Eliminate air or gas.</li> <li>Install (or clean) strainer in inlet pipe.</li> </ol>
MOTOR RUNS HOT OR OVERLOADS	<ol> <li>It is normal for motors to feel hot even when not overloading.</li> <li>Discharge pressure too high.</li> <li>Liquid viscosity higher than expected.</li> <li>Rotational speed too high.</li> <li>Binding internal pump parts.</li> <li>Motor wired incorrectly.</li> </ol>	<ol> <li>Check motor amp draw to be sure.</li> <li>Lower pressure. Check pressure relief valve setting and for defective discharge pressure gauge.</li> <li>Thin liquid or install larger motor.</li> <li>Reduce speed.</li> <li>Inspect and correct condition.</li> <li>Check wiring diagram.</li> </ol>

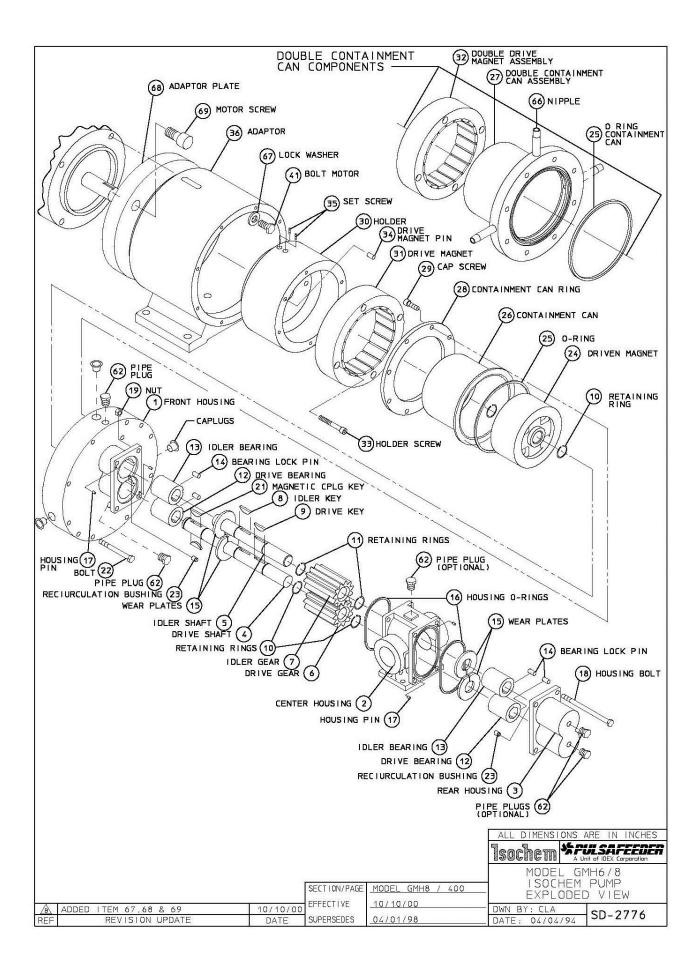
#### PUMP SPECIFICATION CHART

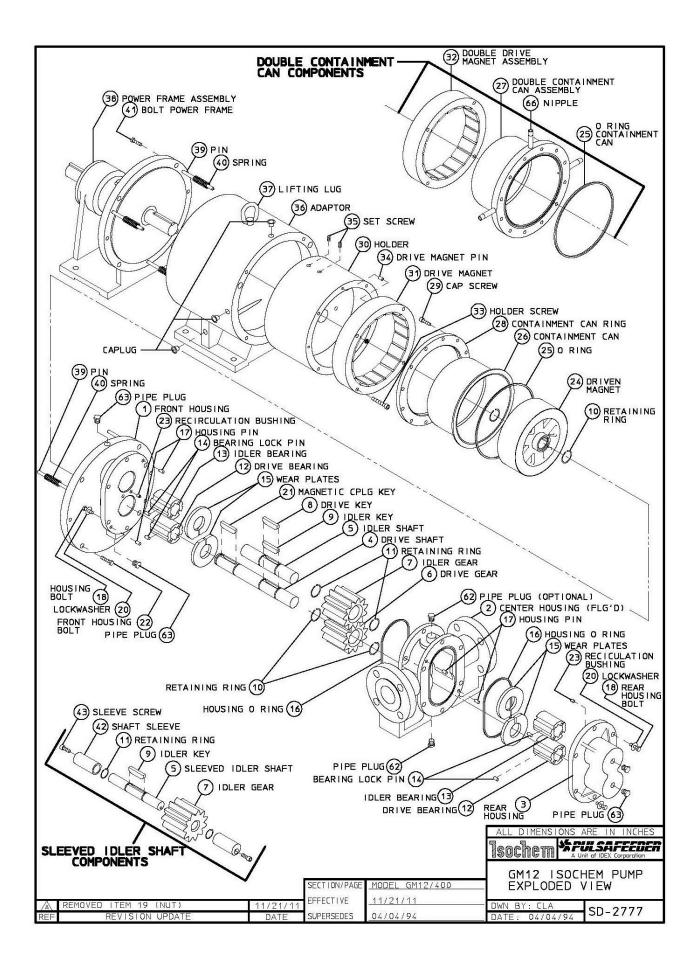
	PUMP SIZE	GMH8	GM12	GM16
	MAXIMUM FLOW @ 1750 RPM, 0 PRESSURE GPM (M <sup>3</sup> /HR) MAXIMUM FLOW @ 1750 RPM, 0 PRESSURE GPM (M <sup>3</sup> /HR) THEORETICAL DISPLACEMENT GAL/100 REV (cc/REV) MAXIMUM DIFFERENTIAL PRESSURE PSI (BARS) MAX DIFF.PRES. PLASTIC/PLASTIC GEARS PSI (BARS) MAXIMUM CASING PRESSURE PSI (BARS) TEMPERATURE RANGE : METAL/METAL GEARS METAL/METAL (ARBON GEARS METAL/CARBON 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 (6.3) 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) 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)	MAXIMUM VISCOSITY SSU (CPS) MINIMUM VISCOSITY: METAL/METAL GEARS SSU (CPS) MINIMUM VISCOSITY: CERAMIC WEAR PLATES SSU (CPS) MAXIMUM ROTATIONAL SPEED	500000 (100000) 500 (100) 500 (100) 1750 BPM	500000 (100000) 500 (100) 500 (100) 1150 BPM	500000 (100000) 500 (100) 500 (100) 1150 RPM
(4) (4)	MAX ROTATIONAL SPEED: METAL/METAL GEARS MAGNETIC COUPLING TOROUE LIMIT 0 68 °F IN/LB MAGNETIC COUPLING TOROUE LIMIT 0 392 °F IN/LB INLET PORT SIZE NPT. BSPT, 150 LB FLG OUTLET PORT SIZE NPT. BSPT, 150 LB FLG CAN DRAIN PORT SIZE NPT BFARING TYPF	1450 RPM 389 (288) 341 (252) 1 THD 1/8 THD INTERNAL SLEEVE	1150 RPM 637 (496) 558 (434) 1 1/2 THD OR FLG 1 1/2 THD OR FLG 1/4 THD INTERNAL SLEEVE	1150 RPM 1239 (991) 1084 (872) 2 FLG 2 FLG 1/4 THD INTERNAL SIFFVE
(E)	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)	BY PUMPED FLUID REVERSIBLE 143/STC.100L TEFLON 8.88×8.00×13.44 75 (165)	BY PUMPED FLUID REVERSIBLE ANY,BASE MOUNT ONLY TEFLON 12.19×10.0×24.56 190 (418)	BY PUMPED FLUID REVERSIBLE ANY.BASE MOUNT ONLY TEFLON 12.19X10.0X26.56 225 (495)

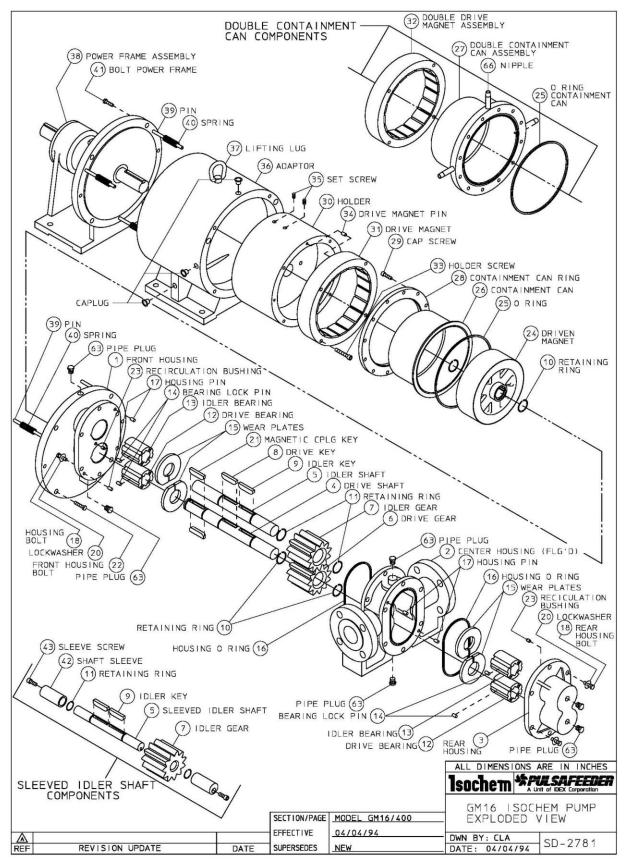
NOTES:

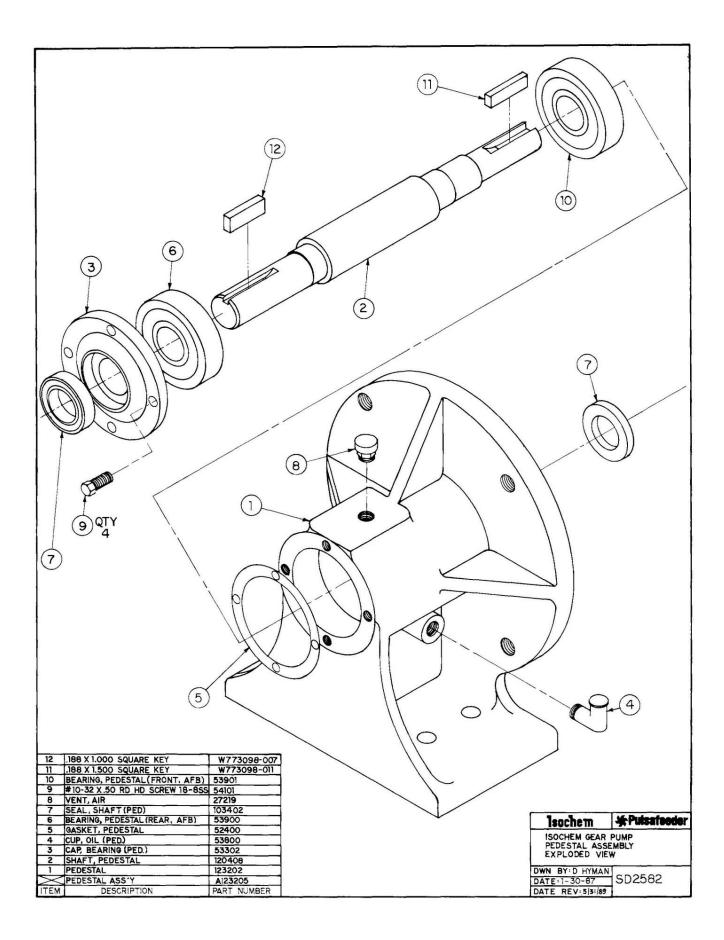
S: (1) FOR TEMPERATURES OVER 110 °F TRIMMED PLASTIC GEARS ARE REQUIRED. (2) CONSULT THE FACTORY FOR HIGHER VISCOSITIES (3) DIMENSIONS VARY FOR METRIC UNITS, BUT ARE WITHIN ENVELOPE DIMENSIONS SPECIFIED. (4) TORQUE IN ( ) IS FOR DOUBLE CAN PUMPS.

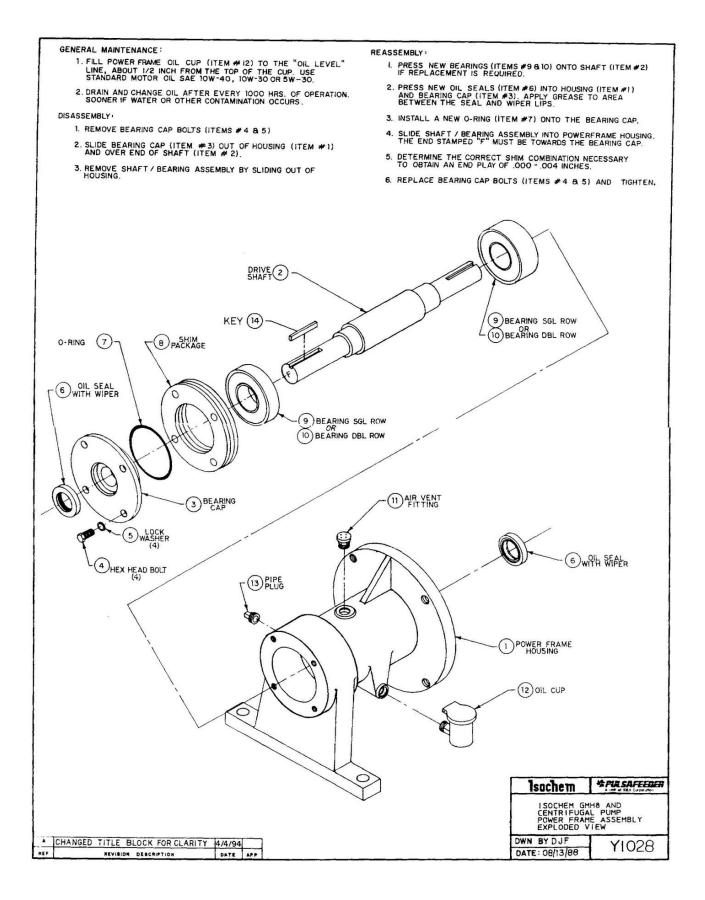
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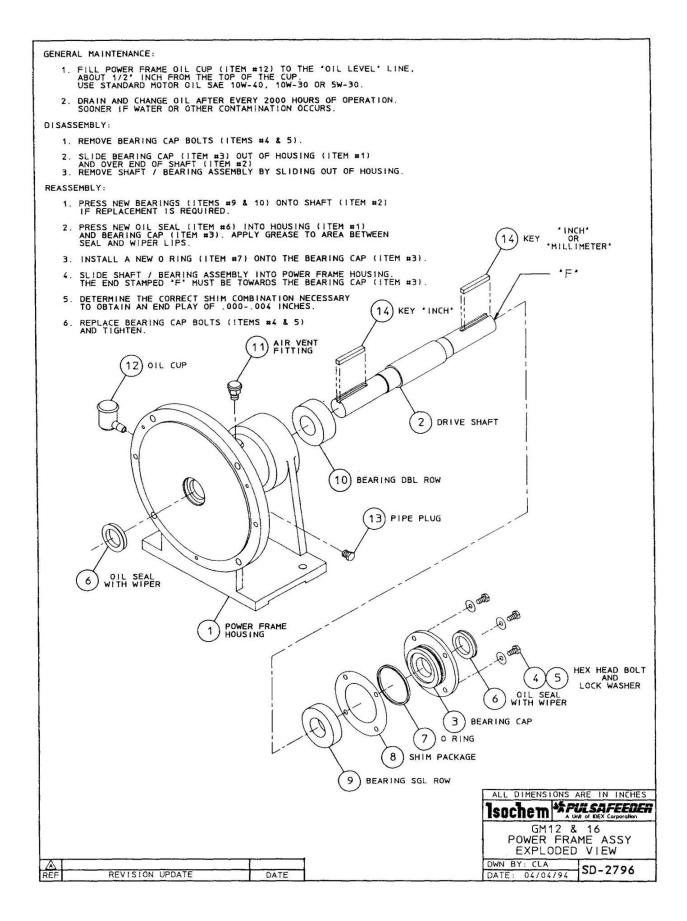


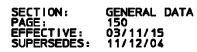












# ISOCHEM GEAR PUMP PRESSURES TO 100 PSI

SIGNIFICANT MODEL NUMBERING SYSTEM AND SELECTION TABLE

						_		
POSITION NO.: 1 2 3 4	5	6 6		9	10	11		
POSITION 1 ISOCHEM MAGNETICALLY DRIVEN SEALLESS								
GMC = L-FACE MOTOR MOUNTING ASSEMBLY GM - L-FACE MOTOR MOUNTING ASSEMBLY GMH - HIGHER PRESSURE MODEL, L-FACE MOTOR	MOUNTING	i ASSEME	- 12	. 2. 4 . 16	. 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 TYP	E PORT (	ONNECT	DN					
A - 316SS FNPT B = ALLOY B FNPT	X	x	×	x	x	x	x	
B = ALLOY B FNPT C = ALLOY C FNPT D = ALLOY 20 FNPT F = TITANIUM FNPT	X	X	X	××	××	X	X	
F - TITANIUM ENPT K - 316SS FBSPT L = ALLOY B FBSPT	Ŷ	x	×	x	х	x	×	
M - ALLOY C FBSPT N - ALLOY 20 FBSPT	****	X	××	××	××	××	××	
U = 316SS FLANGED V = ALLOY C FLANGED	X	X	××	××	×××	××	××	×××
W - ALLOY 20 FLANGED		×	×	×	X	x	×	X
POSITION 4 DRIVE GEAR MATERIAL	<b>—</b>							
C = ALLOY C D = ALLOY Z0 T = TFE (Glass Filled) (1,17)	X	××××	××××	×××	****	×	×	×
E = PEEK (17) A - 316SS	X	X	X	x x x	××	x	×	×
Q = RYTON (17)	X							
POSITION 5 IDLER GEAR MATERIAL			<b>_</b>	~	~	~	v	
D = ALLOY 20 (2)	x	×××××	*****	×××	*****	x	x	X X
T = TFE (Glass Filled) (17) E = PEEK (17)	XXXX	X	X	XXXX	X	X X X	××××	XXX
A - 316SS G - RYTON (17)	X	X	×	x	x	X	x	×
POSITION 6 WEAR PLATE MATERIAL (16)			_					
K = Carbon T = TFE (Glass Filled)	X X	X	××	X X	××	××	××××	X
Z - Ceramic (3) E - PEEK Q - RYTON	×	××××	××××	××	××××	××××	××	X X X X
	^							
POSITION 7 BEARING MATERIAL (16) K = Standard Carbon (4)	x	x	x	x	x	x		
L - Extended Life Carbon (4) T - TFE (Glass Filled) (4,11)	x	×××	××	×	×××	X	X	X
C = Extended Life Carbon - 'CW' Shafts (5) B = Silicon Carbide - 'CW' Shafts (5.6)		××	××	××	×	XXXX	×××××	X
G - RYTON E - PEEK	X							
POSITION 8 MAG DRIVE MOUNTING ARRANGEMENT								
STANDARD U.S. MOUNTINGS								
B = 42C FRAME, SGL. CAN ENTNMNT. (13) C - 48C FRAME, SGL. CAN ENTNMNT. (13) F = 56C FRAME, SGL. CAN ENTNMNT. (13)	X X X	×	×	×	×			
0 = 143TL- 184C FRAME, SGL. LAN CNTNMNT. (13) D - 143TL- 184C FRAME, DBL. LAN CNTNMNT. (13)	~	X	X	×	×	X		
B = 42C FRAME, SGL. CAN ENTNMNT. (13) C - 48C FRAME, SGL. CAN ENTNMNT. (13) F - 56C FRAME, SGL. CAN ENTNMNT. (13) O = 143TL- 184C FRAME, SGL. EAN ENTNMNT. (13) D - 143TL- 184C FRAME, DGL. CAN ENTNMNT. (13) R - 182TL- 184TC FRAME, DGL. CAN ENTNMNT.(14) T - 182TL- 184TC FRAME, DGL. CAN ENTNMNT.(14) W = 213TL- 215TC FRAME, DGL. CAN ENTNMNT.(14) Y = 213TL- 215TC FRAME, DGL. CAN ENTNMNT.(14)						×××××	××	X
Y = 213+C- 215+C FRAME, DBL: CAN ENTINENT: (12)						Ŷ		
STANDARD METRIC MOUNTINGS								
<pre>H = 63 FRAME, SGL. CAN (0 85.00 B.C.) (13) J = 71 FRAME, SGL. CAN (0 85.00 B.C.) (13) K = 80 FRAME, SGL. CAN (0 100.00 B.C.) (13) L = 90 FRAME, SGL. CAN (0 100.00 B.C.) (13) P = 100 FRAME, SGL. CAN (0 130.00 B.C.) Q = 100 FRAME, DBL, CAN (0 130.00 B.C.) U = 028 MM INPUT SHAFT, SGL. CAN (NTMMTI.(14) V = 028 MM INPUT SHAFT, DBL. CAN (NTMMTI.(14))</pre>	××	×	×	v	v			
<pre>K = 80 FRAME, SGL. CAN (0100.00 B.C.) (13) L = 90 FRAME, SGL. CAN (0115.00 B.C.) (13) P = 100 FRAME, SGL, CAN (0130.00 B.C.)</pre>			^	××	××	x		
Q = 100 FRAME, DBL. CAN (#130.00 B.C.) U = #28 MM INPUT SHAFT, SGL. CAN (NTNMNT.(14)						××	×	×
V = Ø28 MM INPUT SHAFT, DBL. CAN CNTNMNT.(14)							×	<u>×</u>

(\*) Higher Pressure Model.

DRAWING: GMCTAB150

				PA	CTION GE: FECTI PERSE	VE:
SOCHEM GEAR PUMP EX	ΓΕΝ	DED	PF	RES	SUR	Ε
PRESSURES ABOVE	Ξ1	00	PS	l		
SIGNIFICANT MODEL NUMBERING SYST	EM AN	id sel	ECTI	DN TA	BLE	
POSITION NO.: 1 2 3 4	□ ₅	6 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	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 (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	Y
POSITION 3 AVAILABLE PUMP METALLURGIES AND TYPE	PORT C	ONNECTI	ON			
A = 316SSFNPTC = ALLOYCFNPTD = ALLOY20FNPTK = 316SSFBSPTM = ALLOYCFBSPTN = ALLOY20FBSPTU = 316SSFLANGEDV = ALLOY20FLANGEDW = ALLOY20FLANGEDW = ALLOY20FLANGED	*****	*****	****	*****	*****	
POSITION 4 DRIVE GEAR MATERIAL						
A - 316 SS C - Alloy C D - Alloy 20	×××	×××	×××	×	××	
POSITION 5 IDLER GEAR MATERIAL						
A - 316 SS C - ALLOY C (2.12) D - ALLOY 20 (2) E - PEEK (2)	****	****	****	x x x	×× ×	
POSITION 6 WEAR PLATE MATERIAL						
K = Carbon T = TFE (Glass Filled) Z = Ceramic (3) E = PEEK (3)	****	××××	xxxx	××××	××××	
POSITION 7 BEARING AND SHAFT MATERIAL					_	
K = Standard Carbon (4) L = Extended Life Carbon (4) 4 = Standard Carbon - Slatted (4) C = Extended Life Carbon - 'CW' Shafts (5) B = Silicon Carbide - 'CW' Shafts (5,6)	×× ××	×× ××	× × ×	× × ×	****	
POSITION 8 MAG DRIVE MOUNTING ARRANGEMENT						
STANDARD U.S. MOUNTINGS	v	U.	v			
F = 56C FRAME, SGL. CAN CNTNNNT. (13) O = 143TC- 184C FRAME, SGL. CAN CNTNMNT. (13) D = 143TC- 184C FRAME, DBL. CAN CNTNMNT. (13) R = 182TC- 184TC FRAME, SGL. CAN CNTNNNT.(14) T = 182TC- 184TC FRAME, DBL. CAN CNTNNNT.(14) W = 213TC- 215TC FRAME, SGL. CAN CNTNNNT.(14) Y = 213TC- 215TC FRAME, DBL. CAN CNTNNNT.(14)	××	××	×	****	××	
STANDARD         METRIC         MOUNTINGS           J = 71         FRAME.         SGL. CAN (# 85.00 B.C.) (13)           K = 80         FRAME.         SGL. CAN (#100.00 B.C.) (13)           L = 90         FRAME.         SGL. CAN (#115.00 B.C.) (13)           P = 100         FRAME.         SGL. CAN (#130.00 B.C.) (13)           0 = 100         FRAME.         DBL. CAN (#130.00 B.C.) (14)           U = #28         MM INPUT SHAFT.         SGL. CAN CNTINNT.(14)	××	××	×	x	××	

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		4	2	4	6	8	*8	12	16
POSITIONS 9, 10, AND 11 OPTIONS									
A = Bearing Flush Ports			x	x	x	×	×	STD	STD
B = PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins			×	×	x	×	×	×	×
C - Bearing Flush Ports PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins			×	×	×	x	×		
D - Bearing Flush Ports, PFA Caated, 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	STD	STD	STE
H = PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins Samarium Cobalt Magnets			×	x	×	x			
M - Alloy C Containment Can (For 316ss Construction Pumps)			×	×	×	x	STD	STD	STE
N - Narrow Width Gears	(9)			х	x				
R = Recirculation Wear Plates	(10)		STD	STD	STD	STD	×	×	×
S = Samarium Cobalt Magnet (For Temperatures abave 300°F)		STD	×	×	×	x	STD	STD	STE
T = Temperature Trimmed Plastic Gear			x	x	x	x	×	×	×
V – Center Hsg – Vent			x	×	×	x	×	×	ST
W = Welded Driven Magnet Assy (Samarium Cobalt Magnets ONLY)			×	x	×	x	x	×	×
X - Special	(15)		x	x	x	x	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	STD
B = PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins		×	×	x	x	×
C - Bearing Flush Ports PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins		×	x	×	x	
D = Bearing Flush Ports, PFA Coated, SS Heg 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 Lack 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 Cobalt Magnets		x	x	×		
M = Alloy C Containment Can (For 316ss Construction Pumps)		×	×	×	STD	STD
N = Narrow Width Gears			×	×		
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	x
W = Welded Driven Magnet Assy (Samarium Cobalt Magnets ONLY)		x	×	×	x	×
X - Special	(15)	x	x	x	х	×

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 55

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 PUI	MP MATERIAL			
				316 (A, K, C		100 (100 (100 (100 )	ALLOY C (C, M, OR V)		Y 20 DR W)	]
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITE
POSITION 3	STANDARD PUMP - NON-VARIBLE	COMPONENT	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	1	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			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
			1.11	in the second		1212121212	100111001000	1 Contraction of the Contraction	Tell offentioners	1.1

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

JSITIC	NN 9,	10, н	IND IT OPTIONS - DELETE CORRESPONDING 3	ANDARD	FOIVE CONFORE	AT FROM BY W					
			HOUSING, CENTER - VENT FNPT		40052-2	316 SS	40053-2	ALLOY C	40054-2	ALLOY 20	2
		C B	HOUSING, CENTER - VENT FBSPT	1	40064-2	316 SS	40065-2	ALLOY C	40066-2	ALLOY 20	2
	V C B	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	
			HOUSING, REAR -BRG FLUSH	1	40247-2	316 SS	40248-2	ALLOY C	40249-2	ALLOY 20	3
		A	PLUG, 1/8" NPT	*2	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	62
	С		# PIN, BEARING LOCK	4	41812	316 SS	41813	ALLOY C	41814	ALLOY 20	14
		В	# O RING, CENTER HOUSING	2	41107	SS / PFA	41107	SS / PFA	41107	SS / PFA	16
			# 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	5		# 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		40527	CARBON	40527	CARBON	40527	CARBON	15
		n	# 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

				STANDARD PUN	IP MATERIAL			
		316	SS	ALLO	YC	ALLO	Y 20	1
		(A, K, C	DR 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 MATER	CIAL			2	×			~	
A	# GEAR, DRIVE / IDLER	3/4"	1-2	40730	316 SS					6, 7
С	# GEAR, DRIVE / IDLER	3/4"	1-2	40605	ALLOY C	40605	ALLOY C	40605	ALLOY C	6, 7
К	# GEAR, IDLER	5/8"		40606	CARBON	40606	CARBON	40606	CARBON	7
T	# 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 6	WEAR PLATE 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"	1	41365	CW / 316 SS	41366	CW / ALY C	41367	CW / ALY20	5
	# BEARING, DRIVE SHAFT	3/4"	2-4	40437	EWCBN	40437	EWCBN	40437	EWCBN	12, 13
	# BEARING, IDLER SHAFT	5/8"	0-2	40433	EWCBN	40433	EWCBN	40433	EWCBN	13

#### CORROSION / WEAR ("CW") - 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
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: M PAGE: 20 DATE REV.: 11 SUPERSEDES: 02

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

					STANDARD PU	MP MATERIAL			
			316	SS	ALLC	DY C	ALLOY 20		
			(A, K, I	ORU)	(C, M,	OR V)	(D, N, (	OR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITE
OSITION 8	MAGNETIC COUPLING COMPONENTS								
	DRIVEN MAGNET ASSY	1	49697	316 SS	49707	ALLOY C	49708	ALLOY 20	2
	BOLT, FRONT HOUSING / ADAPTOR	8	W770407-188	188 SS	W770407-188	188 SS	W770407-188	188 SS	2
	# O RING, CONTAINMENT CAN	*1	W210422-TFE	TFE	W210422-TFE	TFE	W210422-TFE	TFE	2
COMMON	SCREW, SET	2	W771004-030	STEEL	W771004-030	STEEL	W771004-030	STEEL	3
PARTS	PIN, DRIVE MAGNET / HOLDER	2	W771209-003	STEEL	W771209-003	STEEL	W771209-003	STEEL	3
	SCREW, SKHD DRIVE MAGNET / HOLDER	4	W770027-188	188 SS	W770027-188	188 SS	W770027-188	188 SS	3
	CAN, CONTAINMENT	1	49674	ALLOY C	49674	ALLOY C	49674	ALLOY C	2
	SCREW, CONTAINMENT CAN RING	8	W770021-188	188 SS	W770021-188	188 SS	W770021-188	188 SS	2
	HOLDER, DRIVE MAGNET	1	49705	STEEL	49705	STEEL	49705	STEEL	1
43 / 5TC, 1840	FRAME COMPONENTS		10 30 40 M		()	100000000	1000000	10 million and 40 million	1
COMMON	ADAPTOR, MOTOR	1	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	9
PARTS	BOLT. MOTOR	4	W770425-188	188 SS	W770425-188	188 SS	W770425-188	188 SS	1
NGLE CONTA	INMENT CAN COMPONENTS					203/024			
	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	3
0	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	2
OUBLE CONT/	AINMENT CAN COMPONENTS								
	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	100
	CAN ASSY, CONTAINMENT	Ĩ	49698	316 SS	49699	ALLOY C	49700	ALLOY 20	2
D	# O RING, CONTAINMENT CAN	*1	W210422-TFE	TFE	W210422-TFE	TFE	W210422-TFE	TFE	2
	NIPPLE, 1/8" NPT X 2.00	2	W773965-208	316 SS	W773965-235	ALLOY C	W773965-145	ALLOY 20	6
00 FRAME CO	MONENTS								
	HOLDER, DRIVE MAGNET	1	49718	STEEL	49718	STEEL	49718	STEEL	12
COMMON	ADAPTOR, MOTOR	1	Y1101000-ALU	ALUMINUM	Y1101000-ALU	ALUMINUM	Y1101000-ALU	ALUMINUM	3
PARTS	BOLT, MOTOR (METRIC)	4	W770533-188	188 SS	W770533-188	188 SS	W770533-188	188 SS	4
NGLE CONTA	INMENT CAN COMPONENTS		Concernant and a second	A CONTRACTOR OF CONTRACTOR					
	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	3
Р									

CODEL CONT							17		0.0
	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			
			316	5 SS	ALLO	DY C	ALLC	Y 20	
			(A, K,	OR U)	(C, M,	OR V)	(D, N,	OR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITE
OSITION 8	MAGNETIC COUPLING COMPONENTS								
	DRIVEN MAGNET ASSY	1	49697	316 SS	49707	ALLOY C	49708	ALLOY 20	2
	BOLT, FRONT HOUSING / ADAPTOR	8	W770407-188	188 SS	W770407-188	188 SS	W770407-188	188 SS	2
	# O RING, CONTAINMENT CAN	1	W210422-TFE	TFE	W210422-TFE	TFE	W210422-TFE	TFE	2
COMMON	PIN, DRIVE MAGNET / HOLDER	2	W771209-003	STEEL	W771209-003	STEEL	W771209-003	STEEL	3
PARTS	SCREW, SKHD DRIVE MAGNET / HOLDER	4	W770027-188	188 SS	W770027-188	188 SS	W770027-188	188 SS	3
	CAN, CONTAINMENT	1	49674	ALLOY C	49674	ALLOY C	49674	ALLOY C	2
	SCREW, CONTAINMENT CAN RING	8	W770021-188	188 SS	W770021-188	188 SS	W770021-188	188 SS	2
62 / 410 FRA	HOLDER. DRIVE MAGNET	1	49757	IRON	49757	IRON	49757	IRON	3
	ADAPTOR, MOTOR	1	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	
	SCREW, MOTOR	4	W770580-STL	STEEL	W770580-STL	STEEL	W770580-STL	STEEL	6
COMMON	ADAPTOR, PLATE	1	Y1101600-STL	STEEL	Y1101600-STL	STEEL	Y1101600-STL	STEEL	e
PARTS	BOLT, ADAPTOR PLATE	4	W770425-188	188 SS	W770425-188	188 SS	W770425-188	188 SS	1
	WASHER, LOCK	4	W771108-188	188 SS	W771108-188	188 SS	W771108-188	188 SS	(
	SCREW, SET	2	W771004-030	STEEL	W771004-030	STEEL	W771004-030	STEEL	
NGLE CONTA				Dicco		Ditte		Diese	<u> </u>
R	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	12
ĸ	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	2
OUBLE CONT	AINMENT CAN COMPONENTS								_
	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	
т	CAN ASSY, CONTAINMENT	1	49698	316 SS	49699	ALLOY C	49700	ALLOY 20	2
10	# O RING, CONTAINMENT CAN	*1	W210422-TFE	TFE	W210422-TFE	TFE	W210422-TFE	TFE	2
	NIPPLE, 1/8" NPT X 2.00	2	W773965-208	316 SS	W773965-235	ALLOY C	W773965-145	ALLOY 20	6
13 / 5TC FRA	HOLDER, DRIVE MAGNET	11	49758	IRON	49758	IRON	49758	IRON	3
	ADAPTOR, MOTOR	1	49758 Y1100700-ALU	ALUMINUM	49758 Y1100700-ALU	ALUMINUM	49758 Y1100700-ALU	ALUMINUM	2
COMMON		4	W770068-188	188 SS	W770068-188	188 SS	W770068-188	188 SS	6
PARTS	SCREW, MOTOR	4	Y1101700-STL	STEEL	Y1101700-STL	STEEL	Y1101700-STL	STEEL	6
FANIS	ADAPTOR, PLATE BOLT, ADAPTOR PLATE	4	W770426-188	188 SS	W770426-188	188 SS	W770426-188	188 SS	2
	SCREW, SET	2	W771004-046	STEEL	W771004-046	STEEL	W771004-046	STEEL	
		Z	W771004-046	SIEEL	W771004-046	SIEEL	W771004-046	STEEL	
INGLE CONTA		1	49702	STEEL	40702	STEEL	49702	CTEEL	3
W	DRIVE MAGNET ASSY			Contract of Providence	49702			STEEL	1.55
	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	2
OUBLE CON	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	
		1	49704	316 SS	49704	ALLOY C	49704	ALLOY 20	-
Υ		*1	49698 W210422-TFE	316 55 TFE	49699 W210422-TFE	TFE	49700 W210422-TFE	ALLOY 20 TFE	2
	# O RING, CONTAINMENT CAN	*1	WZ10422-TFE	IFE	WZ10422-IFE	IFE	WZ10422-IFE	THE	$+^2$

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			
	STRUCTURED WITH NO DASHES		316	5 SS	ALLC	DY C	ALLO	Y 20	
	EXAMPLE: GM12XXXXX		(A, K,	OR U)	(C, M,	OR V)	(D, N, I	OR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITE
OSITION 3	STANDARD PUMP - NON-VARIABLE COMPONE	NTS							
	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	1
	HOUSING, CENTER 1.50-150# FLG		90003	316 SS	90007	ALLOY C	90010	ALLOY 20	1
	HOUSING, REAR	1	90201	316 SS	90205	ALLOY C	90204	ALLOY 20	
	# RING, RETAINING 1"	4-6	96702	316 SS	96708	ALLOY C	96708	ALLOY C	1
	# RING, RETAINING 3 / 4"	0-2	96701	316 SS	96709	ALLOY C	96709	ALLOY C	1
	# KEY, DRIVE GEAR 1"	*1	91904	316 SS	91910	ALLOY C	91910	ALLOY C	8
	# KEY, MTL IDLER GEAR 1"	*0-1	91904	316 SS	91910	ALLOY C	91910	ALLOY C	1
	# KEY, CBN IDLER GEAR 3 / 4"	0-2	91925	316 SS	91926	ALLOY C	91926	ALLOY C	1
	# KEY, PLASTIC IDLER GEAR 3 / 4"	0-2	91901	316 SS	91912	ALLOY C	91912	ALLOY C	1
	# KEY, MAGNETIC CPLG - DRIVEN	*1	91904	316 SS	91910	ALLOY C	91910	ALLOY C	2
	# PIN, BEARING LOCK	*4	90801	316 SS	90803	ALLOY C	90803	ALLOY C	
	# BUSHING, RECIRCLATION (.000)	1	99618-00	TFE	99618-00	TFE	99618-00	TFE	1
	# O-RING, HOUSING	2	91101	TFE	91101	TFE	91101	TFE	
	PIN, HOUSING	*4	90801	316 SS	90801	316 SS	90801	316 SS	
	BOLT, CENTER HOUSING (ALL)	12	W770412-188	188 SS	W770412-188	188 SS	W770412-188	188 SS	
	LOCKWASHER, HOUSING	12	W771107-188	188 SS	W771107-188	188 SS	W771107-188	188 SS	1
	PLUG, 1 / 8" NPT	**1	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	- 13
	PLUG, 1 / 4" NPT	4	16415	316 SS	16422	ALLOY C	16432	ALLOY 20	3
	NAMEPLATE	1	41210	188 SS	41210	188 SS	41210	188 SS	
SITION 9, 1	LO, AND 11 OPTIONS - DELETE CORRESPONDING STA		-		90006-2	ALLOY C	90005-2	ALL 0Y 20	1
	HOUSING, CENTER - VENT FNPT	1	90001-2	316 SS	http://www.upit.cov	Provide Dataset 10, 1993	Portes compositionerous	ALLOY 20	
V	HOUSING, CENTER - VENT FBSPT	- <sup>-</sup>	90012-2 90003-2	316 SS	90013-2	ALLOY C	90014-2	ALLOY 20	-
	HOUSING, CENTER - VENT FLGD	**		316 SS	90007-2	ALLOY C	90010-2	ALLOY 20	_
	PLUG, 1 / 8" NPT	*1	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	3
в	# O-RING, HOUSING	2	91106	SS / PFA	91106	SS / PFA	91106	SS / PFA	
	# O-RING, CONTAINMENT CAN	1-2	W212172-001	SS / PFA	W212172-001	SS / PFA	W212172-001	SS / PFA	3
	HOUSING, REAR - RECIRCULATION	1	90201-3	316 SS	90205-3	ALLOY C	90204-3	ALLOY 20	
	# BUSHING, RECIRCULATION (.060)	2	99618-06	TFE	99618-06	TFE	99618-06	TFE	
R	# WEAR PLATE, RECIRCULATION	-	90516	CARBON	90516	CARBON	90516	CARBON	-
	# WEAR PLATE, RECIRCULATION	4	90517	TFE (GF)	90517	TFE (GF)	90517	TFE (GF)	_
	# WEAR PLATE, RECIRCULATION	-	90518	CERAMIC	90518	CERAMIC	90518	CERAMIC	
	# WEAR PLATE, RECIRCULATION		90519	PEEK	90519	PEEK	90519	PEEK	
W	DRIVEN MAGNET ASSY (WELDED)	1	99663	316 SS	99664	ALLOY C	99665	ALLOY 20	8
	# DRIVE SHAFT	1	90367	316 SS					-
	IDLER SHAFT ASSEMBLY				A ANTENNA A ANTE		10000		-
115	SHAFT, SLEEVED IDLER 3/4"	1	90397	316 SS					
HF	# SLEEVE SHAFT 1"	2	90391	316 SS			And a second sec	100000	
	# SCREW, SLEEVE	2	W770021-316	316 SS					
	# GEAR, IDLER 3/4"	1	90677	PEEK					3

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

				L.	.ONSOLID	AIED B / N	/1	SUPERSEDES:	11/12/04	
				(		STANDARD PL	JMP MATERIAL			Т
				P29003	5 SS	ALL	OY C	120120120	OY 20	
			-		OR U)		OR V)		, OR W)	-
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
OSITION 4 &	5 DRIVE AND IDLER GEAR MATERIAL									
А	# GEAR, DRIVE/IDLER	1"	1-2	90679	316 SS					6, 7
С	# GEAR, DRIVE/IDLER	1"	1-2	90627	ALLOY C	90627	ALLOY C	90627	ALLOY C	6,7
K	# 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
Ë	# GEAR, IDLER	3/4"		90677	PEEK	90677	PEEK	90677	PEEK	7
and the state of the state	the side and the side side side			The second second second second second	The the the the	C The The The Th		The The The Inc.	The second secon	
OSITION 6	WEAR PLATE MATERIAL				-		-	-		
К	# WEAR PLATE, SLOTTED			90503	CARBON	90503	CARBON	90503	CARBON	15
Т	# WEAR PLATE, SLOTTED		4	90510	TFE (GF)	90510	TFE (GF)	90510	TFE (GF)	15
Z	# WEAR PLATE, SLOTTED			90512	CERAMIC	90512	CERAMIC	90512	CERAMIC	15
E	# WEAR PLATE, SLOTTED			90515	PEEK	90515	PEEK	90515	PEEK	15
DSITION 7	SHAFT AND BEARING MATERIAL									
ANDARD CO		4.0		00427	DWCDN	00427	DATODAL	00427	EWCON	112
	# BEARING, DRIVE/IDLER SHAF	1"	4	90437	EWCBN	90437	EWCBN	90437	EWCBN	12, 1
	# SHAFT, DRIVE	<b>a</b> n	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"	-	Contraction Collins	1. Contractor	1111000		E CAVITACI		
	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,
	# SHAFT, DRIVE	054	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
т	IDLER SHAFT ASSEMBLY	3/4"		535555			2000		and the second s	
	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, SLTD DRV/IDL SHAFT	1"	4	90441	EWCBN	90441	EWCBN	90441	EWCBN	12, 1
	# 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
4	IDLER SHAFT ASSEMBLY	3/4"	_							-
10 10	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
TENDED/W	EAR - BOTH SHAFTS	201	1		-			1	-	
	# BEARING, DRIVE/IDLER SHAFT	1"	4	90437	EWCBN	90437	EWCBN	90437	EWCBN	12,
	# SHAFT, DRIVE	Ser .	1	90370	CW / 316 SS	90371	CW / ALY C	90372	CW / ALY20	4
	# SHAFT, IDLER (METAL GEAR)	1"	1	90373	CW / 316 SS	90374	CW / ALY C	90375	CW / ALY20	5
C	IDLER SHAFT ASSEMBLY	3/4"								-
	SHAFT, SLEEVED IDLER		1	90397	316 SS	90398	ALLOY C	90399	ALLOY 20	5
	SHAFT, SLEEVED IDLER (CBN GR)	Notes-		99669	316 SS	99670	ALLOY C	99671	ALLOY 20	5
	# SLEEVE, SHAFT	1"	2	90394	CW / 316 SS	90395	CW / ALY C	90396	CW / ALY20	42
	# SCREW, SLEEVE		2	W770021-316	316 SS	W770021-HC0	ALLOY C	W770021-020	ALLOY 20	43
nnorion /	WEAD ("CW") DOT! CHASTS									
KKUSION/	WEAR ("CW") - BOTH SHAFTS	1.0	1.4	00430	SIGRD	00420	SIGRD	00430	SIGRD	112
	# BEARING, DRIVE/IDLER SHAFT	1"	4	90439	SICBD	90439	SICBD	90439	SICBD	12,
	# SHAFT, DRIVE	11	1	90370	CW / 316 SS	90371	CW / ALY C	90372	CW / ALY20	4
	# SHAFT, IDLER (METAL GEAR)	1"	1	90373	CW / 316 SS	90374	CW / ALY C	90375	CW / ALY20	5
в		3/4"								
	SHAFT, SLEEVED IDLER		1	90397	316 SS	90398	ALLOY C	90399	ALLOY 20	5

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

SHAFT, SLEEVED IDLER (CBN GR)

# SLEEVE, SHAFT

# SCREW, SLEEVE

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

		1			STANDARD PU	MP MATERIAL			٦
			316	SS	ALLO	YC	ALLO	Y 20	-
			(A, K, C	DR U)	(C, M, 0	DR V)	(D, N, C	DR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEN
OSITION 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	DRIVE MAGNET ASSY	1	99635	STL	99635	STL	99635	STL	
	S. MOUNTING AINMENT CAN COMPONENTS								
R	POWERFRAME µ1.125 INPUT SHAFT	1	99648	STL	99648	STL	99648	STL	38
13	RING, CONTAINMENT CAN	1	99630	316 SS	99630	316 SS	99630	316 SS	28
		-	35000	010 00	33450	01000	33050	01000	20
OUBLE CONT	AINMENT CAN COMPONENTS								
	POWERFRAME µ1.125 INPUT SHAFT	1	99648	STL	99648	STL	99648	STL	38
	DRIVE MAGNET ASSY	1	99638	STL	99638	STL	99638	STL	32
°T	CAN ASSY, CONTAINMENT	1	99631	316 SS	99632	ALLOY C	99633	ALLOY 20	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
TANDARD M	ETRIC MOUNTING								
INGLE CONTA	AINMENT CAN COMPONENTS								
	POWERFRAME µ28 MM INPUT SHAFT	1	99649	STL	99649	STL	99649	STL	38
U	DRIVE MAGNET ASSY	1	99635	STL	99635	STL	99635	STL	31
	RING, CONTAINMENT CAN	1	99630	316 SS	99630	316 SS	99630	316 SS	28
OUBLE CONT	FAINMENT CAN COMPONENTS								
	POWERFRAME µ28 MM INPUT SHAFT	1	99649	STL	99649	STL	99649	STL	38
	DRIVE MAGNET ASSY	1	99638	STL	99638	STL	99638	STL	32
V	CAN ASSY, CONTAINMENT	1	99631	316 SS	99632	ALLOY C	99633	ALLOY 20	27
	# O RING, CONTAINMENT CAN ASSY	*1	W212172-TFE	TFE	W212172-TFE	TFE	W212172-TFE	TFE	25
	NIPPLE, 1/8" NPT X 2.00	2	W773965-208	316 SS	W773965-235	ALLOY C	W773965-145	ALLOY 20	66

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

DWG: GM12P202

ITEM CLASS GM16 = IU PRODUCT LINE = H / ISOCHEM

## ISOCHEM GM16 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GM16

 PAGE:
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 DATE REV.:
 11 / 12 / 12

 SUPERSEDES:
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						STANDARD PU	MP MATERIAL			
	STRUCTURED WITH NO DASHES			316	SS	ALLO	ΥC	ALLOY 20		
	EXAMPLE: GM16XXXXXX			(U	)	(V	)	(W)	()	
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSITION 3	STANDARD PUMP - NON-VARIABL	E 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
	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

ö	# 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
R	# WEAR PLATE, RECIRCULATION	4	90516	CARBON	90516	CARBON	90516	CARBON	15
0	# 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 PU	IP MATERIAL			
		316	SS	ALLO	YC	ALLO	Y 20	
	_	(U	(U)		(V)		(W)	
DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM

A	# GEAR, DRIVE/IDLER	1"	1-2	90668	316 SS					6, 7
С	# 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
Ë	# GEAR, IDLER	3/4"		90678	PEEK	90678	PEEK	90678	PEEK	7

#### POSITION 6 WEAR PLATE MATERIAL

К	# WEAR PLATE, SLOTTED		90503	CARBON	90503	CARBON	90503	CARBON	15
Т	# WEAR PLATE, SLOTTED		90510	TFE (GF)	90510	TFE (GF)	90510	TFE (GF)	15
Ζ	# WEAR PLATE, SLOTTED	4	90512	CERAMIC	90512	CERAMIC	90512	CERAMIC	15
Ē	# WEAR PLATE, SLOTTED		90515	PEEK	90515	PEEK	90515	PEEK	15

#### POSITION 7 SHAFT AND BEARING MATERIAL

#### STANDARD CONSTRUCTION

	# 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
Ľ	IDLER SHAFT ASSEMBLY	3/4"	1	1000 A	6.00000000 50000000	A METTERS CONSISTENT		1000	A	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
	# 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
τ	# 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		8.9827228.9 5729424111	8 (857778) 9 9 (98971) 1		and the second s	A	-
	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

UDED/			-							-
	# 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"	-							
	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

	# BEARING, DRIVE/IDLER SHAFT	1"	4	90439	SICBD	90439	SICBD	90439	SICBD	12, 13
	# SHAFT, DRIVE		1	90382	CW / 316 SS	90383	CW / ALY C	90384	CW / ALY20	4
	# SHAFT, IDLER (METALIC GEAR)	1"	1	90385	CW / 316 SS	90386	CW / ALY C	90387	CW / ALY20	5
В	IDLER SHAFT ASSEMBLY	3/4"	T		e estatue Constitue	A METTERS CONSIGNED	in a second s	in the second	in the second	100
	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

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## 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		ALLOY C (V)		ALLOY 20 (W)		]
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITE
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	30
	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	4:

#### STANDARD U.S. MOUNTING

SINGLE CONTA	INMENT CAN COMPONENTS								
R	POWERFRAME µ1.125 INPUT SHAFT	1	99648	STL	99648	STL	99648	STL	38
	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
T	DRIVE MAGNET ASSY	1	99639	STL	99639	STL	99639	STL	32
	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	1	99630	316 SS	99630	316 SS	99630	316 SS	28

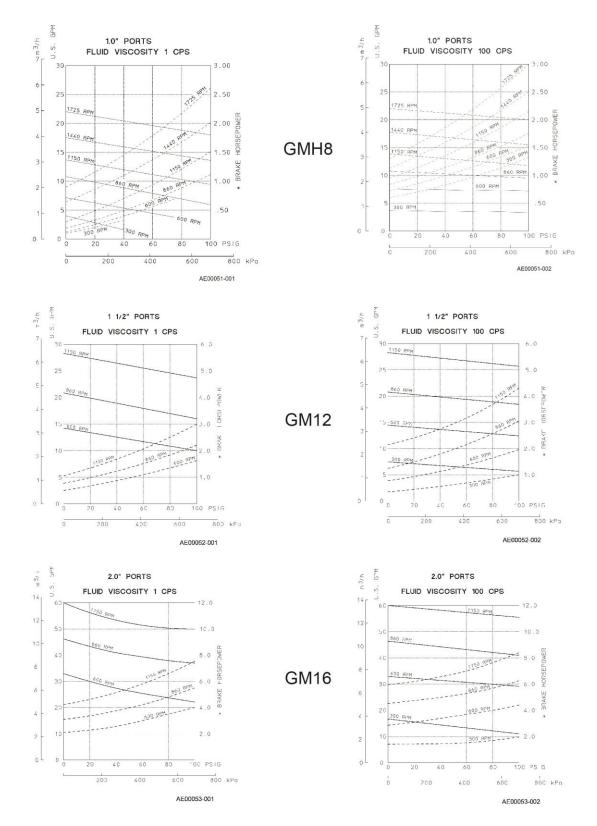
#### DOUBLE CONTAINMENT CAN COMPONENTS

	POWERFRAME µ24 MM INPUT SHAFT	1	99649	STL	99649	STL	99649	STL	38
v	DRIVE MAGNET ASSY	1	99639	STL	99639	STL	99639	STL	32
	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<sup>®</sup> 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	□ [ •	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	MOUNTIN	g asseme	- 1 - 12 3LY - 8	. 16	, 6,	8		
POSITION 2 PUMP SIZE Port Size (INCHES) Capacity (GPM MAX) Differential Pressure (PSIG MAX) Max. Casing Pressure (PSIG MAX)	1 .25* .8 100 300	2 .25* 1.5 100 200	4 .50* 3 100 200	6 .75* 10 100 150	8 1.00* 20 50 150	*8 1.00* 20 100 200	12 1.50* 26 100 200	16 2.00* 55 100 200
POSITION 3 AVAILABLE PUMP METALLURGIES AND TYP	e port	CONNECT	ION					
A = 316SS     FNPT       B = ALLOY B     FNPT       C = ALLOY C     FNPT       D = ALLOY 20     FNPT       F = TITANIUM     FNPT       K = 316SS     FBSPT       L = ALLOY C     FBSPT       M = ALLOY C     FBSPT       N = ALLOY C     FBSPT       U = 316SS     FLANGED       V = ALLOY C     FLANGED       W = ALLOY C     FLANGED	****	x xx x xx xx xx	* ** * ** ***	* ** * ** ***	* ** * ** ***	* ** * ** ***	* ** * ** ***	***
POSITION 4 DRIVE GEAR MATERIAL								
C = ALLOY C D = ALLOY 20 T = TFE (Gloss Filled) (1,17) E = PEEK (17) A = 316SS (17) O = RYTON (17)	×× ×××	****	****	****	****	× ×	x x	×
POSITION 5 IDLER GEAR MATERIAL								
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)	** ****	*****	*****	*****	*****	* ****	× ×××	* ****
POSITION 6 WEAR PLATE MATERIAL (16)			54		• •		n v.	
K - Carbon T - TFE (Glass Filled) Z - Ceramic (3) E - PEEK O - RYTON	×× ××	xxxx	xxxx	****	****	****	xxxx	хххх
POSITION 7 BEARING MATERIAL (16)			•					
K - Standard Carbon (4) L - Extended Life Carbon (4) T - TFE (Gloss Filled) (4,11) 4 - Standard Carbon - Slotted (4,11) C - Extended Life Carbon - 'CW' Shafts (5) B - Slilcon Carbide - 'CW' Shafts (5,6) O - RYTON E - PEEK	××××	XXX XX XX	*** **	*** **	××× ××	*****	××××	×× ××
POSITION 8 MAG DRIVE MOUNTING ARRANGEMENT	200130							
STANDARD U.S. MOUNTINGS           B = 42C FRAME, SGL. CAN CNTNMNT. (13)           C = 48C FRAME, SGL. CAN CNTNMNT. (13)           F = 56C FRAME, SGL. CAN CNTNNNT. (13)           O = 143TC- 184C FRAME, SGL. CAN CNTNMNT. (13)           D = 143TC- 184C FRAME, DBL. CAN CNTNMNT. (13)           R = 182TC- 184CF FRAME, SGL. CAN CNTNMNT. (14)           T = 182TC- 184TC FRAME, DBL. CAN CNTNMNT. (14)           W = 213TC- 215TC FRAME, DBL. CAN CNTNMNT. (14)           Y = 213TC- 215TC FRAME, DBL. CAN CNTNMNT. (14)	***	x	××	××	××	*****	xx	××
STANDARD         METRIC         MOUNTINGS           H = 63         FRAME.         SGL.         CAN (# 85.00 B.C.) (13)           J = 71         FRAME.SGL.         CAN (# 05.00 B.C.) (13)           K = 80         FRAME.SGL.         CAN (# 00.00 B.C.) (13)           L = 90         FRAME.SGL.         CAN (# 10.00 B.C.) (13)           P = 100         FRAME.SGL.         CAN (# 10.00 B.C.) (13)           O = 100         FRAME.SGL.         CAN (# 130.00 B.C.) (14)           U = #28 MM INPUT SHAFT.SGL.         CAN CMINNT.(14)           V = #28 MM INPUT SHAFT.SGL.         CAN CMINNT.(14)		x	××	××	××	x 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	z	4	6	8	*8	12	16
OSITIONS 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			×	×	×	×	×	×	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	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	STD	STD	STE
H = PFA Coated, SS Hsg O-Rings Metallic Bearing Lock Pins Samarium Cobalt Magnets			×	x	x	x			
M = Alloy C Containment Can (For 316ss Construction Pumps)			×	×	×	×	STD	STD	STE
N - Narrow Width Gears	(9)			х	х				
R = Recirculation Wear Plates	(10)		STD	STD	STD	STD	×	×	×
S = Samarium Cobalt Magnet (For Temperatures above 300°F)		STD	×	×	x	x	STD	STD	STE
T = Temperature Trimmed Plastic Gear			x	x	x	x	×	×	x
V = Center Hsg - Vent			x	x	x	x	×	×	ST
W = Welded Driven Magnet Assy (Samarium Cobalt Magnets ONLY)			x	x	x	x	×	×	x
X - Special	(15)		x	x	x	x	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	<b>4</b>	5	□ [ •	7 8	] [] 9	10	 11
POSITION 1 ISOCHEM MAGNETICA GMC - C-FACE MOTOR MOUN GM - C-FACE MOTOR MOUN GMH - HIGHER PRESSURE M	TING ASSEMBLY		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 (PSI Max. Casing Pressure (PSIC	G MAX) 5 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 M	ETALLURGIES AN	ID TYPE	PORT C	ONNECTI	ON			
A = 316SS         FNPT           C = ALLOY         C         FNPT           D = ALLOY         20         FNPT           K = 316SS         FBSPT         M           M = ALLOY         C         FBSPT           N = ALLOY         20         FBSPT           U = 316SS         FLANC           V = ALLOY         C         FLANC           W = ALLOY         20         FLANC	ied ied		****	****	****	****	*****	
POSITION 4 DRIVE GEAR MATER	RIAL							
A - 316 SS C - ALLOY C D - ALLOY 20			×××	×××	×××	××	××	
POSITION 5 IDLER GEAR MATER	RIAL							
A = 316 SS C = ALLOY C D = ALLOY ZO E = PEEK		2,12) 2)	****	xxxx	xxxx	× × ×	× × ×	
POSITION 6 WEAR PLATE MATER	TAL							
K = Carbon T = TFE (Glass Filled) Z = Ceramic E = PEEK		:3)	****	****	****	****	****	
POSITION 7 BEARING AND SHAF	T MATERIAL							
K - Standard Carbon L - Extended Life Carbon 4 - Standard Carbon - Slat C - Extended Life Carbon - B - Silicon Carbide - 'CW'	ted "CW" Shafts	4) 4) 5) 5,6)	×× ××	xx xx	xx xx	xx xx	****	
POSITION 8 MAG DRIVE MOUNTI	NG ARRANGEMENT	8						
STANDARD U.S.			1.10					
F = 56C FRAME, SGL. CAN CN O = 143TC- 184C FRAME, SGL D = 143TC- 184C FRAME, DBL R = 182TC- 184TC FRAME, DB T = 182TC- 184TC FRAME, DB W = 213TC- 215TC FRAME, DB Y = 213TC- 215TC FRAME, DB	L. CAN CNTNMN	141	××	××	××	*****	××	
STANDARD METR								
J - 71 FRAME, SGL. CAN (# K - 80 FRAME, SGL. CAN (# L - 90 FRAME, SGL. CAN (# P - 100 FRAME, SGL. CAN (# 0 - 100 FRAME, DBL. CAN (# U - #28 MM INPUT SHAFT, SG V - #28 MM INPUT SHAFT, DB	85.00 B.C.) 100.00 B.C.) 115.00 B.C.) 130.00 B.C.) 130.00 B.C.) 130.00 B.C.) 130.00 B.C.) 130.00 B.C.)	(13) (13) (13) (13)	×	××	×	×	××	

(\*) 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	×
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	
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	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)		x	×	×	STD	STD
N = Narrow Width Gears			x	×		
R = Recirculation Wear Plates	(10)	STD	STD	STD	x	x
S = Samaríum Cabalt Magnet (For Temperatures above 300°F)		×	×	×	STD	STD
T = Temperature Trimmed Plastic Gear		x	x	x	x	х
V = Center Hsg - Vent		x	x	x	x	x
W = Welded Driven Magnet Assy (Samarium Cobalt Magnets ONLY)		x	×	×	×	×
X - Special	(15)	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)

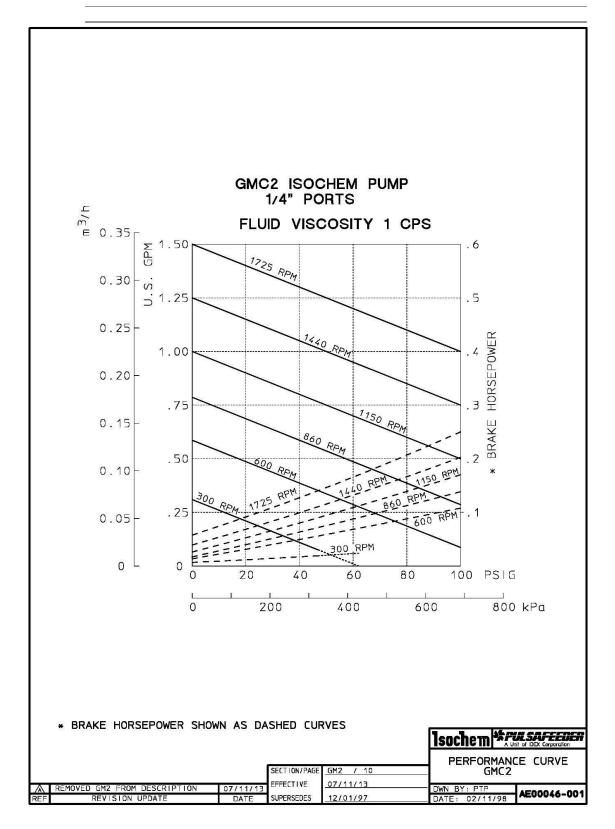
(13) GMC2, GMC4, GMC6, and GMC8 pumps require motors with feet.

(14) GM12, GM16 pumps are not available with integraly mounted motors.

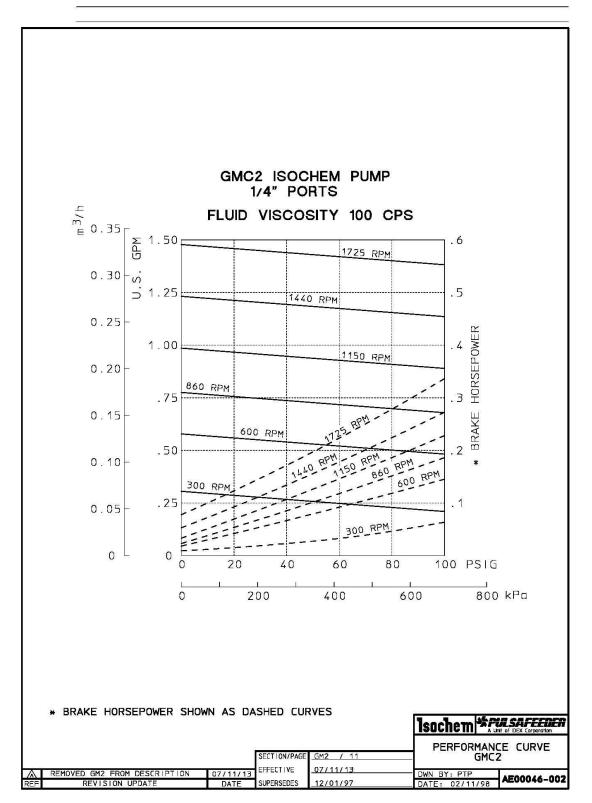
(15) Consult Factory.

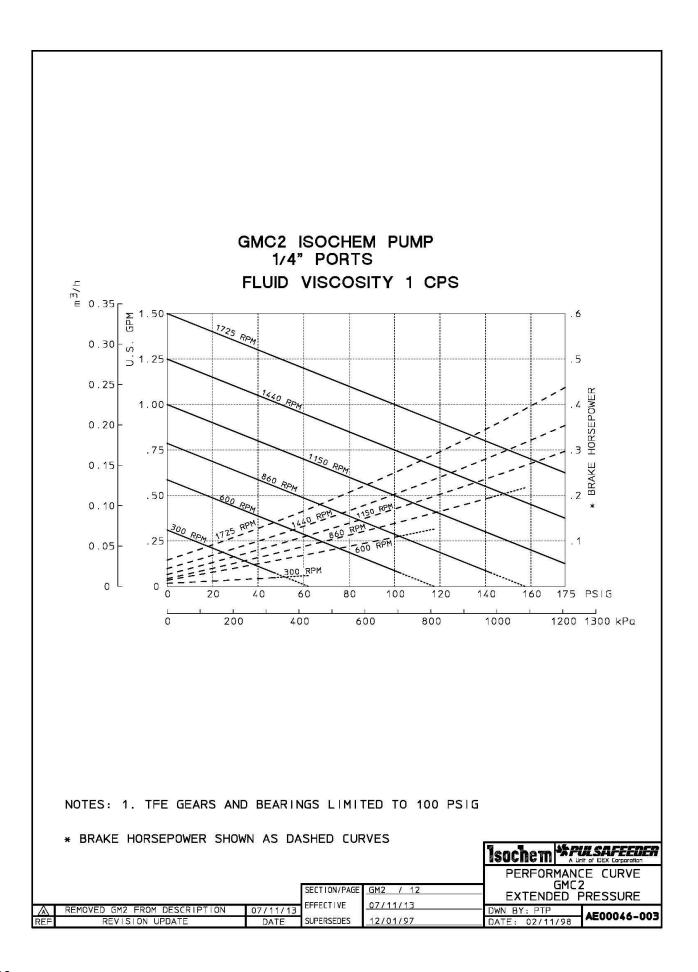
(\*) Higher Pressure Model.
(\*\*) Model Requires Option "N" (Narrow Width Gears) in Postion 9.

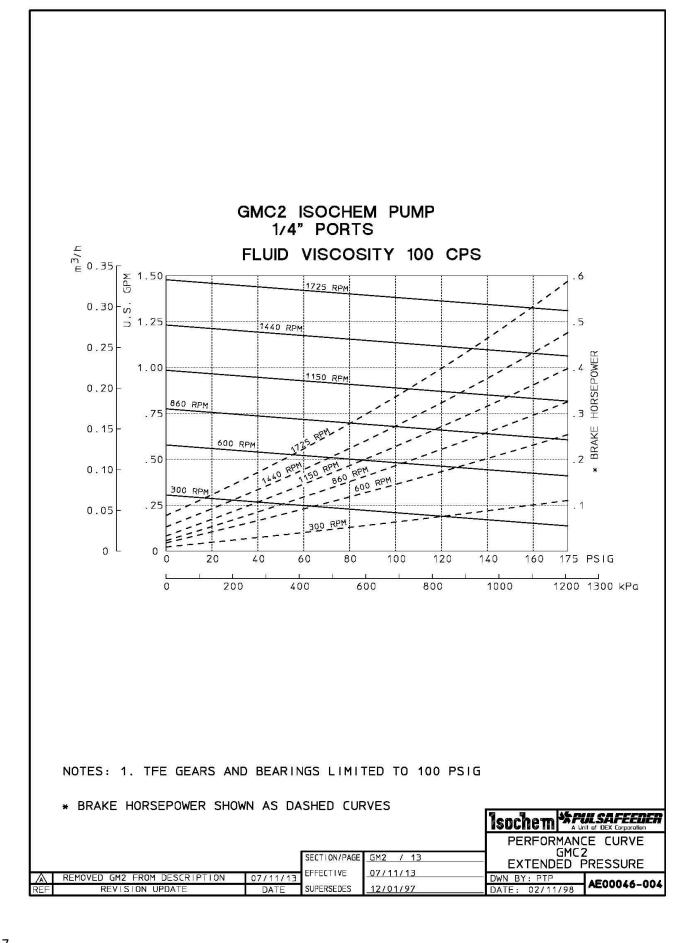
	CERTIFIED	DRAWING B		<b>DER</b>		
F0R:					NO.:	
CUSTOMER P.O. NO:_			S	ERIAL	NO.:	3
ITEM: GMC2	_ DATED :	B`	/:P	ULSA.	ORDER	NO.:
TAGGING:						



		CERTIFIED	DRAWING	BY SA		1			
F0R :						AL	NO.:		
CUSTOMER P.O. 1	NO :				SERI	AL	NO.:		
ITEM: GMC2		DATED :		3Y:			ORDER		
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				
					316	SS	ALLC		ALLO	Y 20	
					(A, K,	OR U)	(C, M,	ORV)	(D, N, C	DRW)	
			DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITE
SITION 3	3	:	STANDARD PUMP - NON-VARIABLE COMPONE	NTS							
		Γ	HOUSING, CENTER - 1/4" PORT FNPT		70026	316 SS	70027	ALLOY C	70028	ALLOY 20	2
		Ē	HOUSING. CENTER FBSPT	1	70029	316 SS	70030	ALLOY C	70031	ALLOY 20	2
		-	HOUSING, CENTER FLANGED	1	NG040004-316	316 SS	NG040004-HC0	ALLOY C	NG040004-020	ALLOY 20	2
		F	HOUSING, REAR	1	70214	316 SS	70215	ALLOY C	70216	ALLOY 20	
			# RING. RETAINING	6	76706	316 SS	76701	ALLOY C	76701	ALLOY C	1
			# KEY, METAL DRIVE GEAR		71931	316 SS	71911	ALLOY C	71910	ALLOY 20	
		- H	# KEY, PLASTIC DRIVE GEAR	*1	71932	316 SS	71917	ALLOY C	71916	ALLOY 20	
		-	# KEY, MTL / CBN IDLER GEAR		71931	316 SS	71911	ALLOY C	71910	ALLOY 20	
		- H	# KEY. PLASTIC IDLER GEAR	*1	71932	316 SS	71917	ALLOY C	71916	ALLOY 20	
		- H	# KEY, MAGNETIC CPLG - DRIVE	1	71933	316 SS	71926	ALLOY C	71925	ALLOY 20	
			# O-RING, HOUSING	2	61101	TFE	61101	TFE	61101	TFE	1
		Ē	PIN. HOUSING	4	40801	316 SS	40801	316 SS	40801	316 SS	1
		F	BOLT, HOUSING	4	72006	188 SS	72006	188 SS	72006	188 \$\$	
		Ē	NUT, HOUSING BOLT	4	72101	188 SS	72101	188 SS	72101	188 SS	
		F	NAMEPLATE	1	41210	188 SS	41210	188 SS	41210	188 SS	
	Í	Í	HOUSING, CENTER - VENT FNPT	- 1	70026-2	316 SS	70027-2	ALLOY C	70028-2	ALLOY 20	T
		v	HOUSING, CENTER - VENT FBSPT	1	70029-2	316 SS	70030-2	ALLOY C	70031-2	ALLOY 20	
			HOUSING, CENTER - VENT FLANGED		NG040008-316	316 SS	NG040008-HC0	ALLOY C	NG040008-020	ALLOY 20	
	$\rightarrow$		PLUG, 1/8" NPT	*1	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	1
		A	HOUSING, REAR - BRG FLUSH	1	70212	316 SS	70234	ALLOY C	70233	ALLOY 20	
			PLUG, 1/8" NPT	*2	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	
	C	- H	# PIN, BEARING LOCK	3-4	41802	ALLOY 20	41806	ALLOY C	41802	ALLOY 20	
		- H	# O-RING, HOUSING	2	61104	SS / PFA	61104	SS / PFA	61104	SS / PFA	
		_	# O-RING, FRONT HOUSING	1	61109	SS / PFA	61109	SS / PFA	61109	SS / PFA	+
		4	# BEARING, SLOTTED CARBON	5	70419	CARBON	70419	CARBON	70419	CARBON	
		4	# BEARING, SLOTTED TFE (GF)	1	70432	TFE (GF)	70432	TFE (GF)	70432	TFE (GF)	
D				3	70433	TFE (GF)	70433	TFE (GF)	70433	TFE (GF)	
		-	# WEAR PLATE, SLOTTED	4	70526	CARBON	70526	CARBON	70526	CARBON	
		- H	# WEAR PLATE - NON-RECIRCULATION	4	70523	CARBON	70523	CARBON	70523	CARBON	
		- F F	# WEAR PLATE - NON-RECIRCULATION	4	70524	TFE (GF)	70524	TFE (GF)	70524	TFE (GF)	
		- H	# WEAR PLATE - NON-RECIRCULATION	4	70525	CERAMIC	70525	CERAMIC	70525	CERAMIC	
	⊢	_	# WEAR PLATE - NON-RECIRCULATION		70534	PEEK	70534	PEEK	70534	PEEK	
	⊢	м		1	79631	ALLOY C					
_	_	-	DRVN MAG ASSY (WELDED) / (SAMAR)	1	79616	316 SS	79643	ALLOY C	79662	ALLOY 20	
			DRV MAG ASSY, 56C FR (SAMAR.)	-	79604	STEEL	79604	STEEL	79604	STEEL	
		s	DRV MAG ASSY,140TC FR (SAMAR.)	1	79636	STEEL	79636	STEEL	79636	STEEL	
		ŀ	DRV MAG ASSY, 71 FR (SAMAR.)	-	79688	STEEL	79688	STEEL	79688	STEEL	_
	. L	_	DRV MAG ASSY, 80 FR (SAMAR.)		79689	STEEL	79689	STEEL	79689	STEEL	
V	N		DRVN MAG ASSY (WELDED) / (SAMAR)	1	79616	316 SS	79650	ALLOY C	79665	ALLOY 20	
	- H	Н	HIGH TEMPERATURE APPLICATION		COMBINE	PUMP	OPTIONS	В	AND	S	
	- 1	XN	HOUSING, CENTER - 1/2" PORT FNPT	1	70014	316 SS	70016	ALLOY C	70015	ALLOY 20	

\*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 PUMP MATERIAL						
		316	i SS	ALLO	YC	ALLO	Y 20		
			OR U)	(C, M, 0	DR V)	(D, N, (	OR W)		
DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM	

A	# GEAR, DRIVE / IDLER	1-2	70696	316 SS		2		Sec. 1	6,7
С	# 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
Т	# 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
T	# 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

#### POSITION 7 SHAFT AND BEARING MATERIAL

ANDARD	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	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
C	# 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

C	# 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: GM2P205

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

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

					STANDARD PU	MP MATERIAL			
			316	iss	ALLO	DY C	ALLO	IY 20	1
			(A, K,	OR U)	(C, M,	ORV)	(D, N,	OR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSITION 8	MAGNETIC COUPLING COMPONENTS								
	HOUSING, FRONT	1	70140	316SS	70141	ALLOY C	70144	ALLOY 20	3
	CONTAINMENT CAN	1	79672	31655	79631	ALLOY C	79631	ALLOY C	19
COMMON	DRIVEN MAGNET ASSY	1	79691	31655	79692	ALLOY C	79693	ALLOY 20	18
PARTS	# 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	18855	26
	PLUG, 1/8" NPT	*2	W772565-316	316SS	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

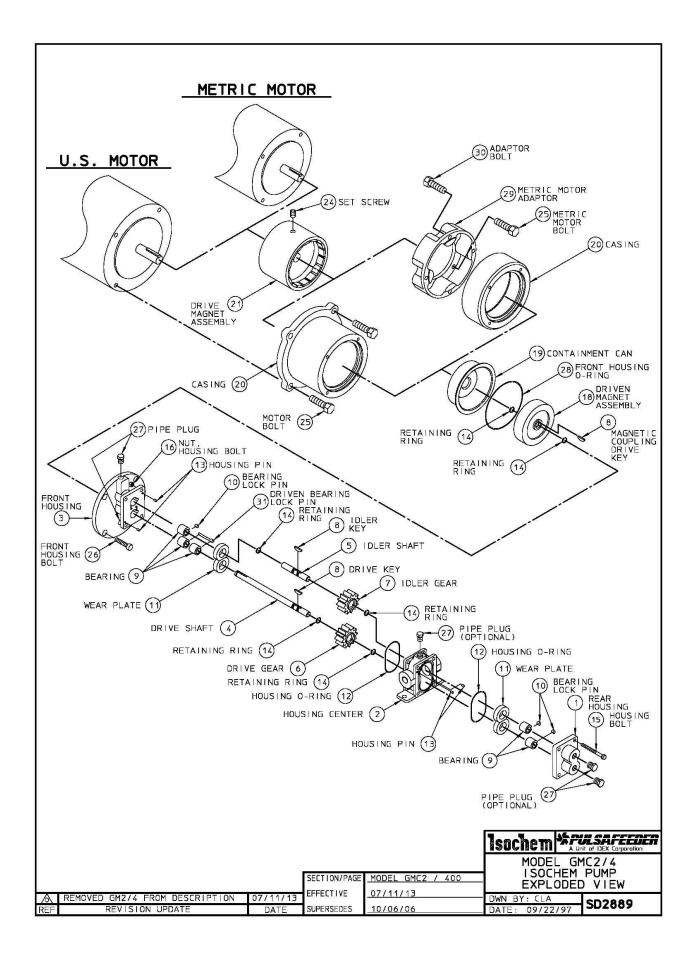
	CASING, 71 FRAME METRIC	1	79681	ALUMINUM	79681	ALUMINUM	79681	ALUMINUM	20
	DRIVE MAGNET ASSEMBLY, 71 FR	1	79686	STEEL	79686	STEEL	79686	STEEL	21
J	MOTOR ADAPTOR, 71 FR METRIC	1	79679	ALUMINUM	79679	STEEL	79679	STEEL	29
	BOLT, MOTOR ADAPTOR	4	16722	STEEL	16722	STEEL	16722	STEEL	30
	BOLT, MOTOR	4	NP990415-STL	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

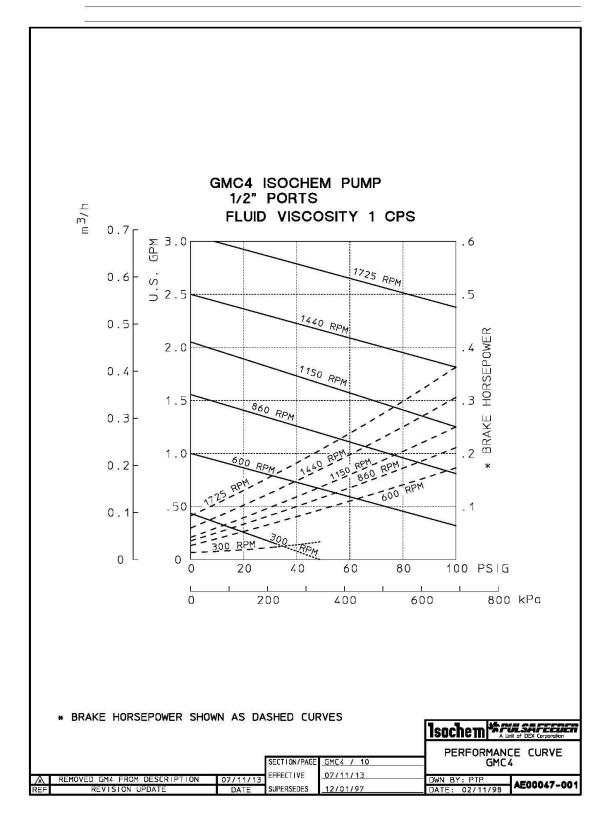
\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART

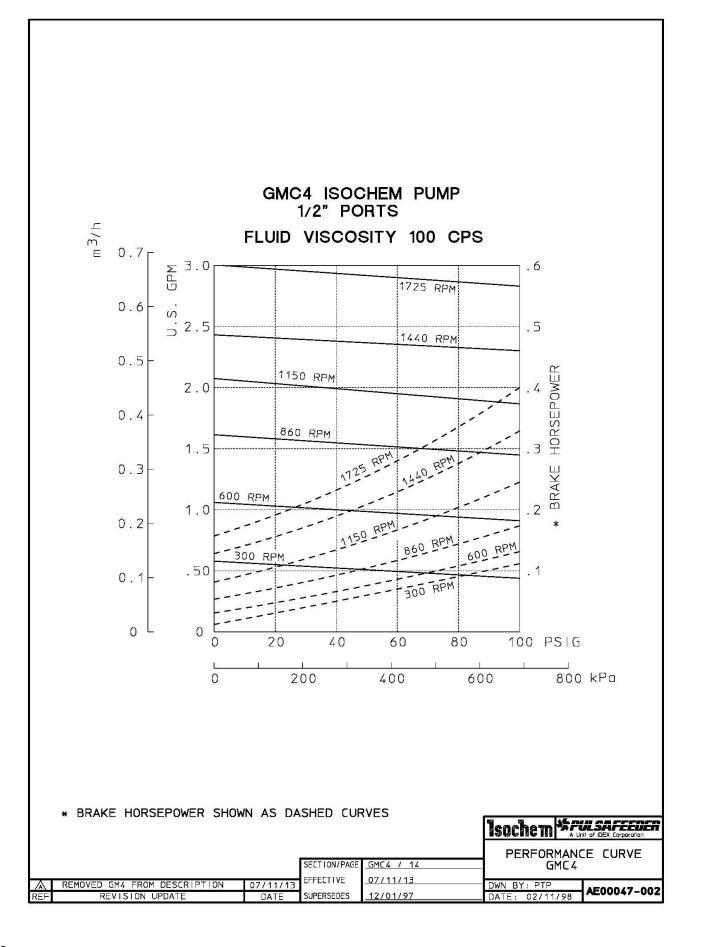
DWG: GM2P206

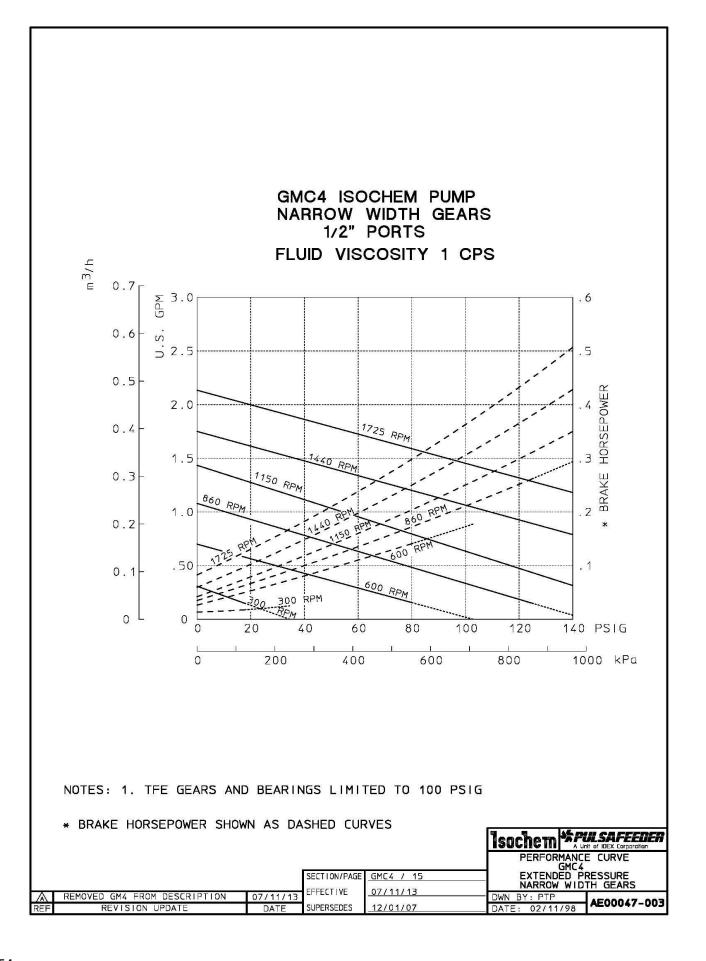


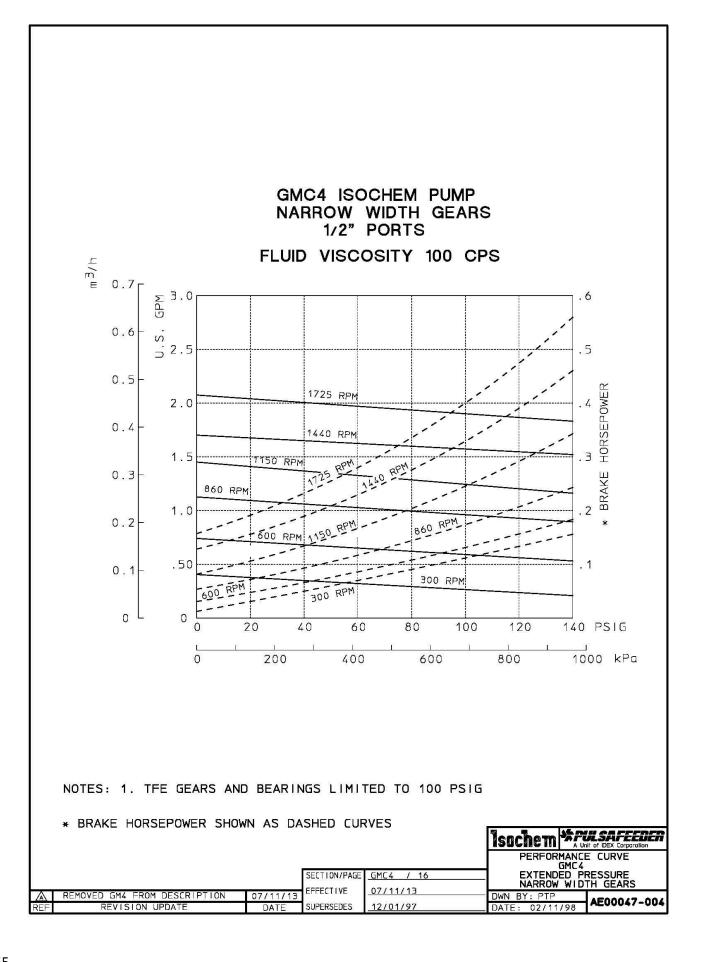
500		A Unit of DEX Co	porotion	NO		
FOR: CUSTOMER P.O. N						
ITEM: GMC4	DATED:	BY :			NO.:	
TAGG I NG :						

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

							STANDARD PU				-
					316	cc	ALLO		A116	DY 20	-
					(A, K,	Cold Sectors	(C, M,		are 2007530	OR W)	
			DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	П
			DESCRIPTION	QI I	PART NOWIDER	MATEMAL	PARTINOWIDER	MATLINAL	FARTINOWIDER	WATENIAL	1 30
SITI	ON 3		STANDARD PUMP - NON-VARIABLE COMPON	IENTS			-			-	
			HOUSING, CENTER FNPT		70014	316 SS	70016	ALLOY C	70015	ALLOY 20	
			HOUSING, CENTER FBSPT	1	70020	316 SS	70022	ALLOY C	70021	ALLOY 20	
			HOUSING, CENTER FLANGED		NG040004-316	316 SS	NG040004-HC0	ALLOY C	NG040004-020	ALLOY 20	
			HOUSING, REAR	1	70214	316 SS	70215	ALLOY C	70216	ALLOY 20	
			# RING, RETAINING	6	76706	316 SS	76701	ALLOY C	76701	ALLOY C	
			# KEY, METAL DRIVE GEAR	*1	71930	316 SS	71904	ALLOY C	71906	ALLOY 20	Т
			# KEY, PLASTIC DRIVE GEAR		71929	316 SS	71903	ALLOY C	71905	ALLOY 20	Т
			# KEY, MTL/CBN IDLER GEAR	*1	71930	316 SS	71904	ALLOY C	71906	ALLOY 20	
			# KEY, PLASTIC IDLER GEAR	- 1	71929	316 SS	71903	ALLOY C	71905	ALLOY 20	T
			# KEY, MAGNETIC CPLG - DRIVE	1	71933	316 SS	71926	ALLOY C	71925	ALLOY 20	
			# O-RING, HOUSING	2	61101	TFE	61101	TFE	61101	TFE	T
			PIN, HOUSING	4	40801	316 SS	40801	316 SS	40801	316 SS	+
			BOLT, HOUSING	4	72006	188 SS	72006	188 SS	72006	188 SS	+
			NUT, HOUSING BOLT	4	72101	188 SS	72101	188 SS	72101	188 SS	+
			NAMEPLATE	1	41210	188 SS	41210	188 SS	41210	188 SS	+
					TILLO	100 00	11210	100 00	11210	100 00	
SITI	ONS 9.	10.	AND 11 OPTIONS - DELETE CORRESPONDING S	TANDAR		IENT FROM B/M					
			HOUSING, CENTER - VENT FNPT		70014-2	316 SS	70016-2	ALLOY C	70015-2	ALLOY 20	Т
			HOUSING, CENTER - VENT FBSPT	1	70020-2	316 SS	700102	ALLOY C	70021-2	ALLOY 20	+
		۷	HOUSING, CENTER - VENT FLANGED	- 1	NG040008-316	316 SS	NG040008-HC0	ALLOY C	NG040008-020	ALLOY 20	+
			PLUG, 1/8" NPT	*1	W772565-316	316 55	52301	ALLOY C	52300	ALLOY 20	┿
T			HOUSING, REAR - BRG FLUSH	1	70212	316 55	70234	ALLOY C	70233	ALLOY 20	+
		А	PLUG, 1/8" NPT	*2	W772565-316	316 55	52301	ALLOY C	52300	ALLOY 20	+
	с			3-4	41802	ALLOY 20	41806	ALLOY C	41802	ALLOY 20	+
	C	в	# PIN, BEARING LOCK	- 11 (1997) - 2004			870 C 3 076 m			<ul> <li>Keyer Companya Keyeren Box</li> </ul>	-
		D	# O-RING, HOUSING	2	61104	SS / PFA	61104	SS / PFA	61104	SS / PFA	_
07	ليتبيل		# O-RING, FRONT HOUSING		61109	SS / PFA	61109	SS / PFA	61109	SS / PFA	+
	)		# BEARING, SLOTTED	5	70419	CARBON	70419	CARBON	70419	CARBON	+
			# WEAR PLATE, SLOTTED	4	70509	CARBON	70509	CARBON	70509	CARBON	_
			# WEAR PLATE - NON-RECIRCULATION	4	70501	CARBON	70501	CARBON	70501	CARBON	_
		999	# WEAR PLATE - NON-RECIRC (NWG)		70536	CARBON	70536	CARBON	70536	CARBON	_
		F	# WEAR PLATE - NON-RECIRCULATION		70504	TFE (GF)	70504	TFE (GF)	70504	TFE (GF)	_
			# WEAR PLATE - NON-RECIRCULATION	**4	70503	CERAMIC	70503	CERAMIC	70503	CERAMIC	
			# WEAR PLATE - NON-RECIRCULATION		70535	PEEK	70535	PEEK	70535	PEEK	
		М	CONTAINMENT CAN	1	79631	ALLOY C	0.000	600000	(anatan)	(222222))	
			# GEAR, DRIVE / IDLER	1-2	70698	316 SS				(10000)	
			# GEAR, DRIVE / IDLER	1-2	70613	ALLOY C	70613	ALLOY C	70613	ALLOY C	
			# GEAR, DRIVE / IDLER	1-2	70633	ALLOY 20			70633	ALLOY 20	_
			# GEAR, IDLER	1	70651	CARBON	70651	CARBON	70651	CARBON	
		N	# GEAR, DRIVE / IDLER	1-2	70623	TFE (GF)	70623	TFE (GF)	70623	TFE (GF)	
		14	# GEAR, DRIVE / IDLER	1-2	70677	PEEK	70677	PEEK	70677	PEEK	
			# KEY, METAL DRIVE GEAR	*1	71931	316 SS	71911	ALLOY C	71910	ALLOY 20	
			# KEY, PLASTIC DRIVE GEAR	1	71932	316 SS	71917	ALLOY C	71916	ALLOY 20	Γ
			# KEY, MTL / CBN IDLER GEAR	*1	71931	316 SS	71911	ALLOY C	71910	ALLOY 20	Т
			# KEY, PLASTIC IDLER GEAR	1.1	71932	316 SS	71917	ALLOY C	71916	ALLOY 20	Τ
			DRVN MAG ASSY (WELDED) / (SAMAR)	1	79616	316 SS	79643	ALLOY C	79662	ALLOY 20	Τ
			DRV MAG ASSY, 56C FR (SAMAR)		79604	STEEL	79604	STEEL	79604	STEEL	T
		S	DRV MAG ASSY,140TC FR (SAMAR)	0120	79636	STEEL	79636	STEEL	79636	STEEL	+
			DRV MAG ASSY, 71 FR (SAMAR)	- 1	79688	STEEL	79688	STEEL	79688	STEEL	$\pm$
			DRV MAG ASSY, 80 FR (SAMAR)		79689	STEEL	79689	STEEL	79689	STEEL	+
								er - be he he		and the back of the	
	W		DRVN MAG ASSY (WELDED) / (SAMAR)	1	79616	316 SS	79650	ALLOY C	79665	ALLOY 20	Т

\*\* 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

					STANDARD PU	MP MATERIAL			
			316	SS	ALLO	YC	ALLO	Y 20	
			(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	ITEN
OSITION 4 8	3 5 DRIVE AND IDLER GEAR MATERIAL								
А	# GEAR, DRIVE/IDLER	1-2	70695	316 SS					6, 7
C	# 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, 1
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
			S						
E	# GEAR, DRIVE/IDLER	1-2	70671	PEEK	70671	PEEK	70671	PEEK	6, 7
	# GEAR, DRIVE/IDLER WEAR PLATE MATERIAL - **QTY 8 WHEN	a de la composición de	to to prod to	PEEK	70671	PEEK	70671	PEEK	6, 7
		a de la composición de	to to prod to	PEEK	70671	PEEK	70671	PEEK CARBON	6, 7
SITION 6	WEAR PLATE MATERIAL - **QTY 8 WHEN	USING NARRO	W WIDTH GEARS	12 10/12/14 19		19 19 19 19 19 19 19 19 19 19 19 19 19 1	· · ·		
SITION 6	WEAR PLATE MATERIAL - **QTY 8 WHEN # WEAR PLATE, RECIRCULATION	a de la composición de	W WIDTH GEARS 70531	CARBON	70531	CARBON	70531	CARBON	11

	# 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

	# SHAFT, DRIVE	1	70393	"CW"	70303	"CW"	70307	"CW"	4
	# SHAFT, IDLER	1	70394	"CW"	70397	"CW"	70308	"CW"	5
C	# 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

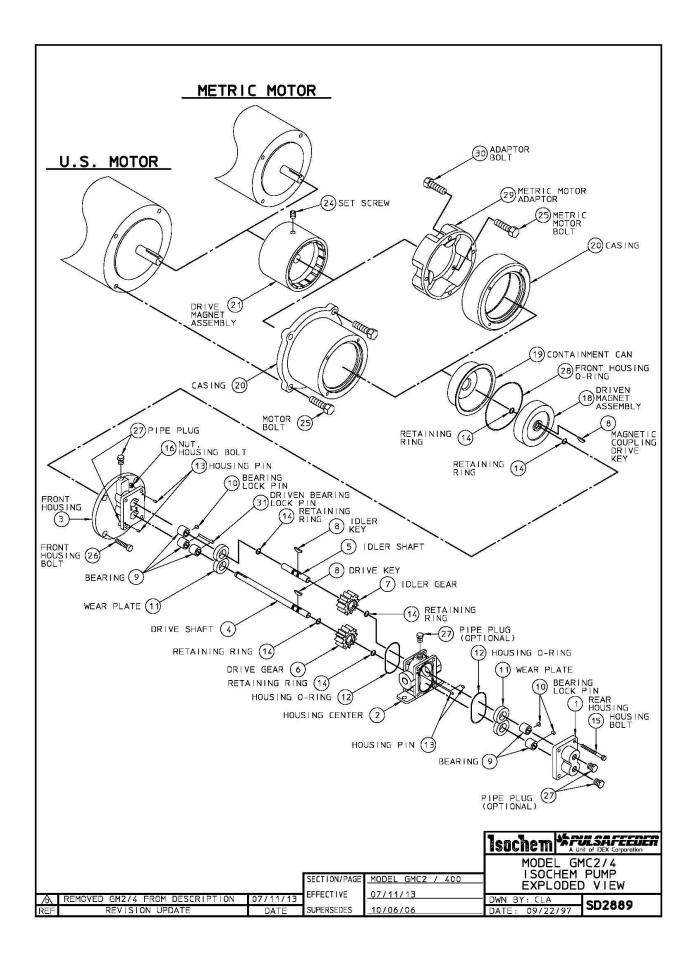
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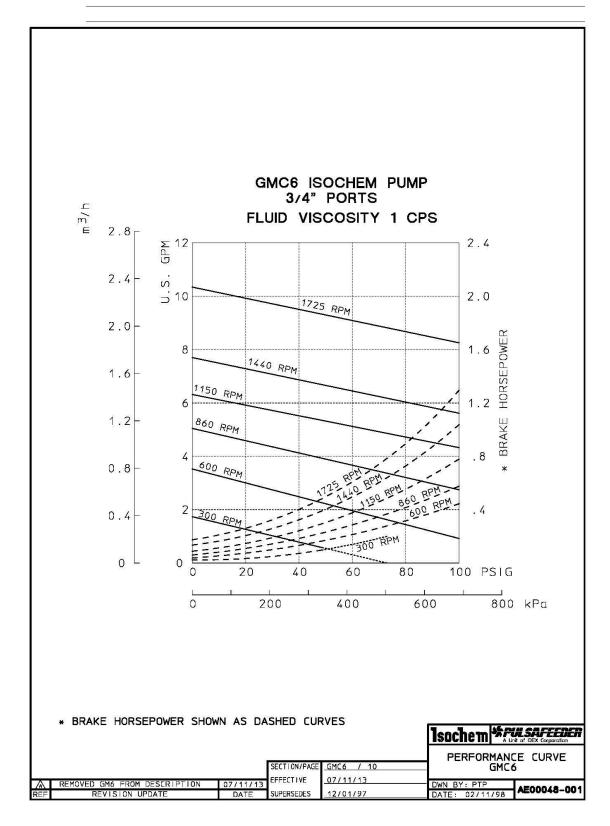
 SUPERSEDES:
 02 / 12 / 01

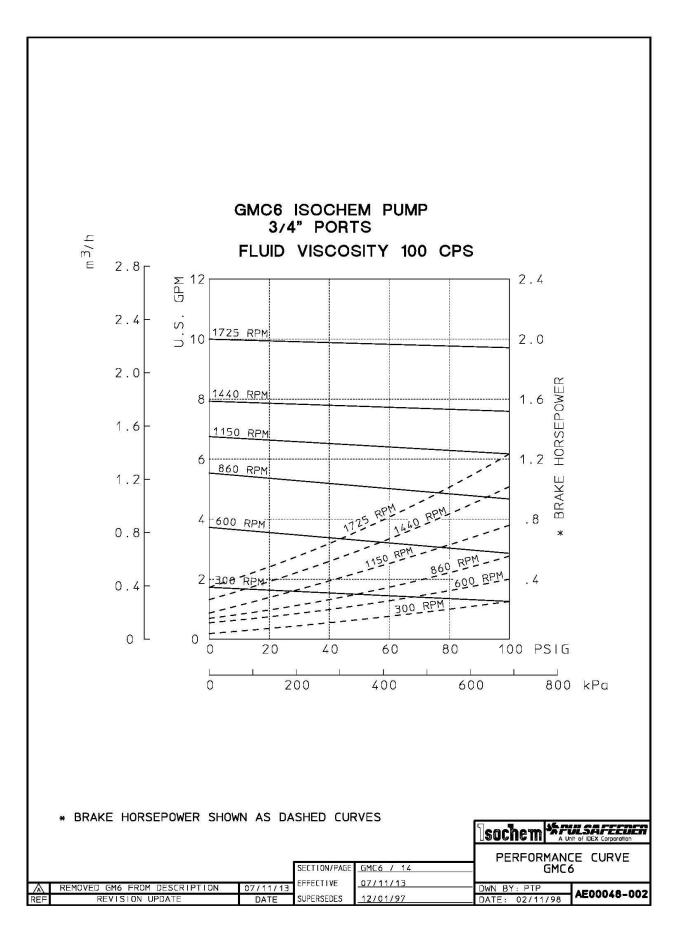
					STANDARD PU	MP MATERIAL			1
			316	i SS	ALLO	DY C	ALLO	Y 20	1
			(A, K,	OR U)	(C, M,	OR V)	(D, N, 1	OR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITE
OSITION 8	MAGNETIC COUPLING COMPONENTS								
	HOUSING, FRONT	1	70140	316 SS	70141	ALLOY C	70144	ALLOY 20	3
	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	1
	# 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	2
	PLUG, 1 / 8" NPT	*2	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	2
	SET SCREW, DRIVE MAGNET ASSY	1	W771004-019	STEEL	W771004-019	STEEL	W771004-019	OR W) MATERIAL ALLOY 20 ALLOY 20 ALLOY 20 TFE 188 SS ALLOY 20 STEEL ALUMINUM STEEL ALUMINUM STEEL ALUMINUM STEEL STEEL ALUMINUM STEEL ALUMINUM STEEL ALUMINUM	24
					e the the the the				
6C FRAME CO									-
-	CASING, 56C / 140TC FR	1	79610	ALUMINUM	79610			5100010101000000	20
F	DRIVE MAGNET ASSEMBLY, 56C FR	1	79684	STEEL	79684	1	AB.654	2 (1997) - Sec Se	2
	BOLT, MOTOR	4	W770425-STL	STEEL	W770425-STL	STEEL	W770425-STL	STEEL	2
40TC FRAME	COMPONENTS								
	CASING, 56C / 140TC FR	1	79610	ALUMINUM	79610	ALUMINUM	79610	ALUMINUM	20
0	DRIVE MAGNET ASSEMBLY, 140TC FR	1	79685	STEEL	79685	DY C         ALLO           OR V)         (D, N,           MATERIAL         PART NUMBER           ALLOY C         70144           ALLOY C         79631           ALLOY C         79633           TFE         W209787-TFE           188 SS         16717           ALLOY C         52300           STEEL         W771004-019           ALUMINUM         79610           STEEL         W770425-STL	STEEL	2	
	BOLT, MOTOR	4	W770425-STL	STEEL	W770425-STL	STEEL	W770425-STL	STEEL	2.
1 METRIC FR		1.4	70004		-		-		T
	CASING, 71 FRAME METRIC	1	79681	ALUMINUM	79681	No bene construction of the second	Mande Bardelinos	NO.8 PROATEGO PROMOTINA	2
ų.	DRIVE MAGNET ASSEMBLY, 71 FR	1	79686	STEEL	79686		mEnniote	Emmer WEL	2:
Ĩ	MOTOR ADAPTOR, 71 FR METRIC	1	79679	ALUMINUM	79679		ALTIC PSALTED	Contraction of the second s	2
	BOLT, MOTOR ADAPTOR	4	16722	STEEL	16722			24.727	3
	BOLT, MOTOR	4	NP990415-STL	STEEL	NP990415-STL	STEEL	NP990415-STL	STEEL	2.
0 METRIC FR	AME COMPONENTS								
	CASING, 80 FRAME METRIC	1	79681	ALUMINUM	79681	ALUMINUM	79681	ALUMINUM	2
	DRIVE MAGNET ASSEMBLY, 80 FR	1	79687	STEEL	79687	STEEL	79687	STEEL	2
К	MOTOR ADAPTOR, 80 FR METRIC	1	79680	ALUMINUM	79680	ALUMINUM	79680	ALUMINUM	2
O 1 METRIC FRA J 0 METRIC FRA	BOLT, MOTOR ADAPTOR	4	16722	STEEL	16722	STEEL	16722	STEEL	3
	BOLT, MOTOR	4	NP990415-STL	STEEL	NP990415-STL		In case of the second second	DR W) MATERIAL ALLOY 20 ALLOY C ALLOY C ALLOY 20 TFE 188 SS ALLOY 20 STEEL STEEL ALUMINUM STEEL STEEL ALUMINUM STEEL STEEL ALUMINUM STEEL STEEL ALUMINUM STEEL STEEL ALUMINUM	2

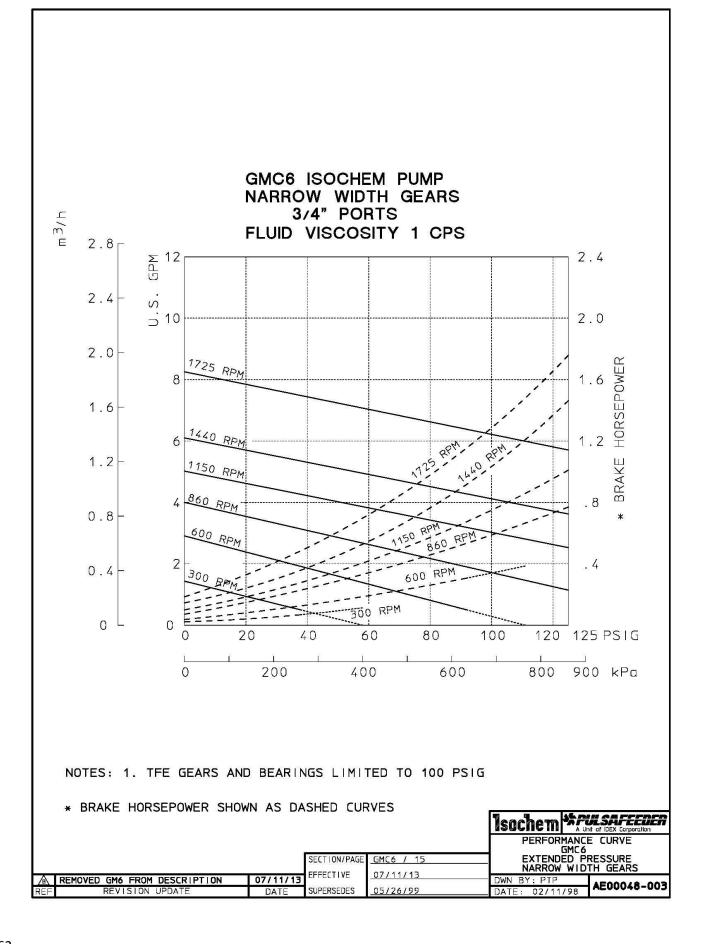
\*COMPONENT QUANTITY MAY BE CUMULATIVE OVER ENTIRE B / M # DENOTES RECOMMENDED SPARE PART DWG: GM4P206

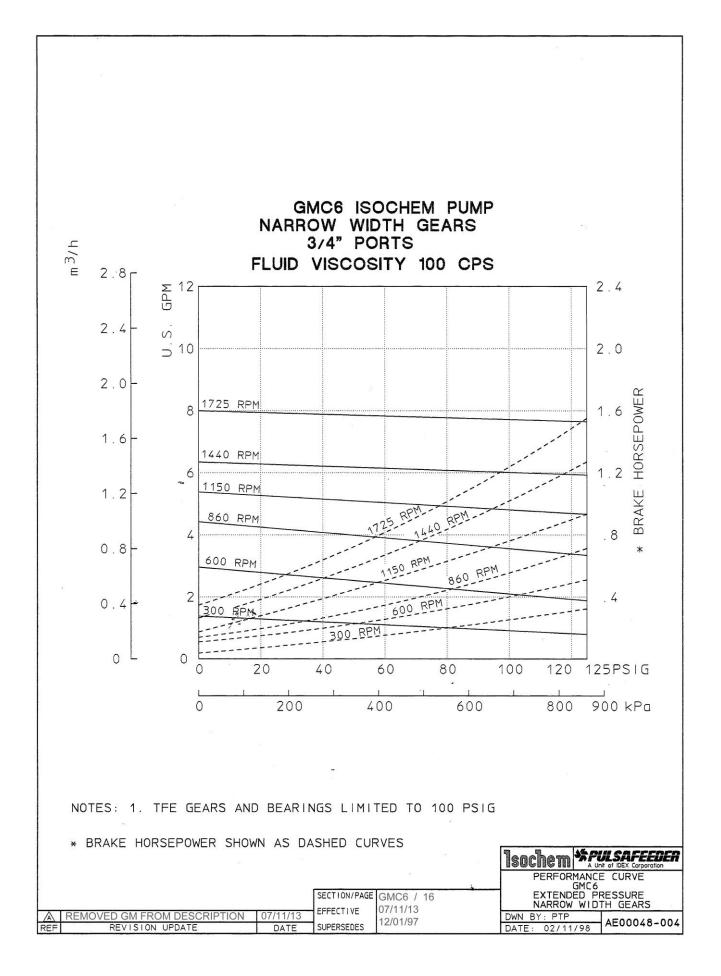


		CERTIFIED	DRAWING	BY 🐝	A Unit of IDEX Corp				
FOR:							NO.:_		
CUSTOMER P.O.	NO:_					SERIAL	NO.:_		
ITEM: GMC6		_ DATED :		BY:		PULSA.	ORDER	NO.:	
TAGG I NG :		nor unurus i concentra							









#### 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

								STANDARD PU				
						316	SS	ALLC	DY C	ALLO	Y 20	
						(A, K,	OR U)	(C, M,	ORV)	(D, N, 0	DR W)	
			DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITE
οςιπο	N 3		STANDARD PUMP - NON-VARIABLE (		rs							
				NPT		40002	316 SS	40006	ALLOY C	40008	ALLOY 20	2
			HOUSING, CENTER F	BSPT	1	40011	316 SS	40023	ALLOY C	40017	ALLOY 20	2
				LANGED		NG040002-316	316 SS	NG040002-HC0	ALLOY C	NG040002-020	ALLOY 20	2
			HOUSING, REAR	5.11025	1	40218	316 SS	40219	ALLOY C	40220	ALLOY 20	
			# RING, RETAINING		6	46713	316 SS	46701	ALLOY C	46701	ALLOY C	1
			# KEY, METAL DRIVE GEAR			41937	316 SS	41903	ALLOY C	41905	ALLOY 20	
			# KEY, PLASTIC DRIVE GEAR		*1	41938	316 SS	41904	ALLOY C	41906	ALLOY 20	
			# KEY, MTL / CBN IDLER GEAR			41937	316 SS	41903	ALLOY C	41905	ALLOY 20	
			# KEY, PLASTIC IDLER GEAR		*1	41938	316 SS	41903	ALLOY C	41905	ALLOY 20	
			# KEY, MAGNETIC CPLG - DRIVEN		1	41938	316 SS	41904	ALLOY C	41908	ALLOY 20	
			# PIN, BEARING LOCK		4	41939	TFE	41934	TFE	41933	TFE	
			,									_
			# O-RING, HOUSING		2	41101	TFE	41101	TFE	41101	TFE	1
			PIN, HOUSING		4	40801	316 SS	40801	316 SS	40801	316 SS	
			BOLT, HOUSING		4	62005	188 SS	62005	188 SS	62005	316 SS	
			NUT, HOUSING BOLT		4	62101	188 SS	62101	188 SS	62101	188 SS	
			NAMEPLATE		1	41210	188 SS	41210	188 SS	41210	188 SS	
ositto	NS 9,	10, /	AND 11 OPTIONS - DELETE CORRESPO	NDING STAN	DAR		-			,		
			HOUSING, CENTER - VENT FNPT			40002-2	316 SS	40006-2	ALLOY C	40008-2	ALLOY 20	
	v	HOUSING, CENTER - VENT FBSPT		1	40011-2	316 SS	40023-2	ALLOY C	40017-2	ALLOY 20		
			HOUSING, CENTER - VENT FLANGED			NG040009-316	316 SS	NG040009-HC0	ALLOY C	NG040009-020	ALLOY 20	
			PLUG, 1 / 8" NPT		*1	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	
		А	HOUSING, REAR - BRG FLUSH		1	40224	316 SS	40231	ALLOY C	40234	ALLOY 20	
		A	PLUG, 1 / 8" NPT		*2	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	
	С		# PIN, BEARING LOCK		4	41802	ALLOY 20	41806	ALLOY C	41802	ALLOY 20	
		В	# O-RING, HOUSING		2	41107	SS / PFA	41107	SS / PFA	41107	SS / PFA	
			# O-RING, FRONT HOUSING		1	41112	SS / PFA	41112	SS / PFA	41112	SS / PFA	
D			# BEARING, SLOTTED		4	40428	CARBON	40428	CARBON	40428	CARBON	
			# WEAR PLATE, SLOTTED		4	40511	CARBON	40511	CARBON	40511	CARBON	
			# WEAR PLATE, SLOTTED			40513	TFE (GF)	40513	TFE (GF)	40513	TFE (GF)	
			# WEAR PLATE - NON-RECIRCULATION			40501	CARBON	40501	CARBON	40501	CARBON	
			# WEAR PLATE - NON-RECIRCULATION			40504	TFE (GF)	40504	TFE (GF)	40504	TFE (GF)	
		F	# WEAR PLATE - NON-RECIRCULATION		4	40503	CERAMIC	40503	CERAMIC	40503	CERAMIC	
			# WEAR PLATE - NON-RECIRCULATION			40523	PEEK	40523	PEEK	40523	PEEK	
	ł	М	CONTAINMENT CAN		1	49605	ALLOY C					
			# GEAR, DRIVE / IDLER		1-2	40727	316 SS					
			# GEAR, DRIVE / IDLER		1-2	40604	ALLOY C	40604	ALLOY C	40604	ALLOY C	
			# GEAR, IDLER		1-2	40681	CARBON	40681	CARBON	40604	CARBON	+-'
					1-2	40648		40648			TFE (GF)	
			# GEAR, DRIVE / IDLER		1-2	40648	TFE (GF) PEEK	40648	TFE (GF) PEEK	40648 40717	PEEK	-
			# GEAR, DRIVE / IDLER		_							
			# KEY, METAL DRIVE GEAR		*1	41940	316 SS	41913	ALLOY C	41920	ALLOY 20	
			# KEY, PLASTIC DRIVE GEAR		<b>.</b>	41941	316 SS	41914	ALLOY C	41921	ALLOY 20	
			# KEY, MTL / CBN IDLER GEAR		*1	41940	316 SS	41913	ALLOY C	41920	ALLOY 20	_
			# KEY, PLASTIC IDLER GEAR			41941	316 SS	41914	ALLOY C	41921	ALLOY 20	
			DRVN MAG ASSY (WELDED) / (SAMAR	)	1	49616	316 SS	49643	ALLOY C	49664	ALLOY 20	
			DRV MAG ASSY, 56C FR (SAMAR.)			49604	STEEL	49604	STEEL	49604	STEEL	
		S	DRV MAG ASSY,140TC FR (SAMAR.)		1	49636	STEEL	49636	STEEL	49636	STEEL	
			DRV MAG ASSY, 80 FR (SAMAR.)		1	49735	STEEL	49735	STEEL	49735	STEEL	
			DRV MAG ASSY, 90 FR (SAMAR.)			49736	STEEL	49736	STEEL	49736	STEEL	
	w'		DRVN MAG ASSY (WELDED) / (SAMAR	)	1	49616	316 SS	49659	ALLOY C	49662	ALLOY 20	
	<u> </u>	Н	HIGH TEMPERATURE APPLICATION			COMBINE	PUMP	OPTIONS	В	AND	s	<u> </u>

\*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 PUN	AD MATERIAL			
			316	ss			ALLO	Y 20	
			(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	IT
ITION 4	& 5 DRIVE AND IDLER GEAR MATERIAL								
А	# GEAR, DRIVE / IDLER	1-2	40728	316 SS					6
С	# GEAR, DRIVE / IDLER	1-2	40668	ALLOY C	40668	ALLOY C	40668	ALLOY C	6
D	# GEAR, DRIVE / IDLER	1-2	40674	ALLOY 20			40674	ALLOY 20	6
К	# GEAR, IDLER	1	40622	CARBON	40622	CARBON	40622	CARBON	
ĨΤ	# GEAR, DRIVE / IDLER	1-2	40600	TFE (GF)	40600	TFE (GF)	40600	TFE (GF)	e
E	# GEAR, DRIVE / IDLER	1-2	40715	PEEK	40715	PEEK	40715	PEEK	e
ITION 6 K	WEAR PLATE MATERIAL - ** QTY. 8 WI # WEAR PLATE, RECIRCULATION	HEN USING NA	40520	CARBON	40520	CARBON	40520	CARBON	-
К	# WEAR PLATE, RECIRCULATION		100000		40520		40520	TFE (GF)	+
-	UNAVEAR DI ATE DECIDICIU ATION								
Т	# WEAR PLATE, RECIRCULATION	**4	40521	TFE (GF)		TFE (GF)	2010/2011/2010/201		_
T Z E	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL	**4	40521 40522 40524	CERAMIC PEEK	40522 40522 40524	CERAMIC PEEK	40521 40522 40524	CERAMIC	
Z E	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION	**4	40522	CERAMIC	40522	CERAMIC	40522	CERAMIC	
Z E	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL	**4	40522	CERAMIC	40522	CERAMIC	40522	CERAMIC	
Z E	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION		40522 40524	CERAMIC PEEK	40522 40524	CERAMIC PEEK	40522 40524	CERAMIC PEEK	
Z E ITION 7 NDARD (	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE	1	40522 40524 40326	CERAMIC PEEK 316 SS	40522 40524 40305	CERAMIC PEEK ALLOY C	40522 40524 40317	CERAMIC PEEK ALLOY 20	
Z E ITION 7 NDARD (	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, IDLER		40522 40524 40326 40360	CERAMIC PEEK 316 SS 316 SS	40522 40524 40305 40362	CERAMIC PEEK ALLOY C ALLOY C	40522 40524 40317 40374	CERAMIC PEEK ALLOY 20 ALLOY 20	
Z E ITION 7 NDARD (	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT		40522 40524 40326 40326 40360 40426	CERAMIC PEEK 316 SS 316 SS CARBON	40522 40524 40305 40362 40426	CERAMIC PEEK ALLOY C ALLOY C CARBON	40522 40524 40317 40374 40426	CERAMIC PEEK ALLOY 20 ALLOY 20 CARBON	
Z E ITION 7 NDARD (	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE	1 1 4 1	40522 40524 40326 40326 40360 40426 40326	CERAMIC PEEK 316 SS 316 SS CARBON 316 SS	40522 40524 40305 40362 40426 40305	CERAMIC PEEK ALLOY C ALLOY C CARBON ALLOY C	40522 40524 40317 40317 40374 40426 40317	CERAMIC PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20	
Z E ITION 7 NDARD (	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, IDLER	1 1 4 1 1	40522 40524 40326 40360 40426 40326 40326 40360	CERAMIC PEEK 316 SS 316 SS CARBON 316 SS 316 SS	40522 40524 40305 40362 40426 40305 40362	CERAMIC PEEK ALLOY C ALLOY C CARBON ALLOY C ALLOY C	40522 40524 40317 40374 40374 40426 40317 40374	CERAMIC PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 ALLOY 20	
Z E ITION 7 NDARD (	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, DLER # SHAFT, DRIVE / IDLER SHAFT # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT	1 1 4 1 1 1 4	40522 40524 40326 40360 40426 40326 40326 40360 40430	CERAMIC PEEK 316 SS 316 SS CARBON 316 SS 316 SS 316 SS EWCBN	40522 40524 40305 40362 40426 40305 40362 40362 40430	CERAMIC PEEK ALLOY C ALLOY C CARBON ALLOY C ALLOY C EWCBN	40522 40524 40317 40374 40426 40426 40317 40374 40374	CERAMIC PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 ALLOY 20 EWCBN	
Z E ITION 7 NDARD 0 K	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE	1 1 4 1 1 4 1 1 4	40522 40524 40326 40360 40426 40326 40326 40430 40430	CERAMIC PEEK 316 SS 316 SS CARBON 316 SS 316 SS EWCBN 316 SS	40522 40524 40305 40362 40426 40305 40362 40362 40430 40305	CERAMIC PEEK ALLOY C ALLOY C CARBON ALLOY C ALLOY C EWCBN ALLOY C	40522 40524 40317 40374 40426 40317 40374 40430 40430 40317	CERAMIC PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20	
Z E ITION 7 NDARD ( K L T	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DRIVE	1 1 4 1 1 4 1 4 1 1 1	40522 40524 40326 40360 40426 40326 40326 403360 40430 40326 40360	CERAMIC PEEK 316 SS 316 SS CARBON 316 SS 316 SS EWCBN 316 SS 316 SS 316 SS	40522 40524 40305 40362 40426 40426 40305 40362 40430 40305 40362	CERAMIC PEEK ALLOY C ALLOY C CARBON ALLOY C ALLOY C EWCBN ALLOY C ALLOY C	40522 40524 40317 40374 40426 40317 40374 40430 40317 40374	CERAMIC PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 ALLOY 20	
Z E ITION 7 NDARD ( K L T	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DLUER # SHAFT, DLUER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DLUER # SHAFT, DLUER # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT	1 1 4 1 1 4 1 4 1 1 1	40522 40524 40326 40360 40426 40326 40326 403360 40430 40326 40360	CERAMIC PEEK 316 SS 316 SS CARBON 316 SS 316 SS EWCBN 316 SS 316 SS 316 SS	40522 40524 40305 40362 40426 40426 40305 40362 40430 40305 40362	CERAMIC PEEK ALLOY C ALLOY C CARBON ALLOY C ALLOY C EWCBN ALLOY C ALLOY C	40522 40524 40317 40374 40426 40317 40374 40430 40317 40374	CERAMIC PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 ALLOY 20 EWCBN ALLOY 20 ALLOY 20 ALLOY 20	
Z E ITION 7 NDARD ( K L T	# WEAR PLATE, RECIRCULATION # WEAR PLATE, RECIRCULATION SHAFT AND BEARING MATERIAL CONSTRUCTION # SHAFT, DRIVE # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, IDLER # BEARING, DRIVE / IDLER SHAFT # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DRIVE # SHAFT, DLER # BEARING, DRIVE / IDLER SHAFT WEAR - BOTH SHAFTS	1 1 4 1 1 4 1 1 4 1 1 4	40522 40524 40326 40326 40326 40326 40326 40360 40420 40360 40360 40425	CERAMIC PEEK 316 SS 316 SS CARBON 316 SS 316 SS EWCBN 316 SS 316 SS TFE (GF)	40522 40524 40305 40362 40426 40305 40362 40430 40305 40362 40305 40362 40425	CERAMIC PEEK ALLOY C ALLOY C CARBON ALLOY C EWCBN ALLOY C ALLOY C ALLOY C TFE (GF)	40522 40524 40524 40317 40374 40426 40317 40374 40430 40317 40374 40374 40425	CERAMIC PEEK ALLOY 20 ALLOY 20 CARBON ALLOY 20 EWCBN ALLOY 20 ALLOY 20 ALLOY 20 TFE (GF)	

,								
	# 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
E	# 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

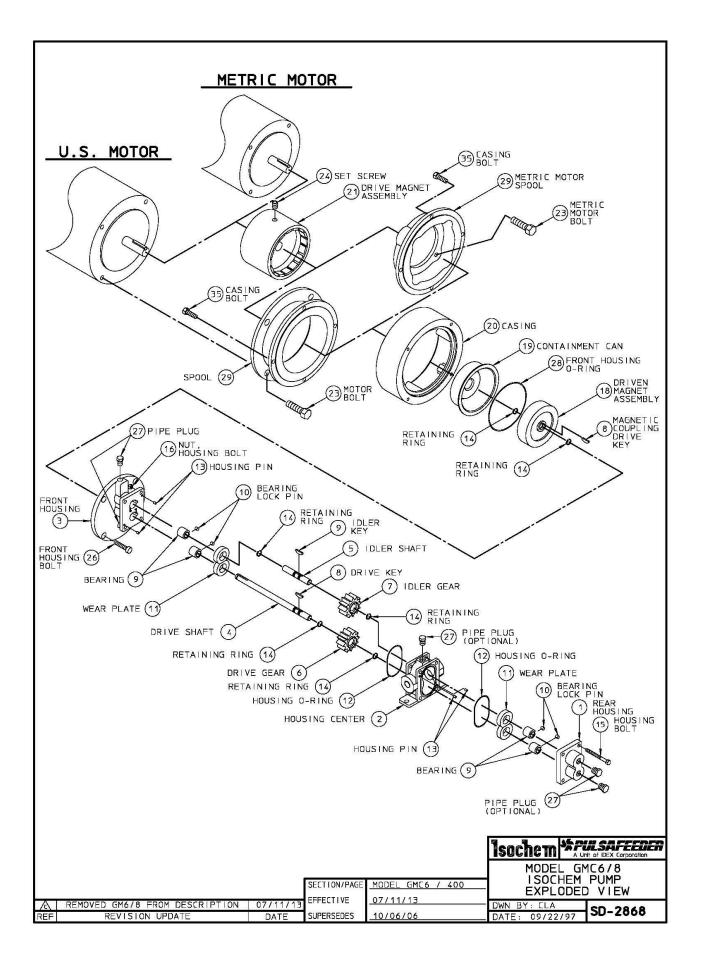
#### **ISOCHEM GMC6 SERIES PUMP** CONSOLIDATED B / M

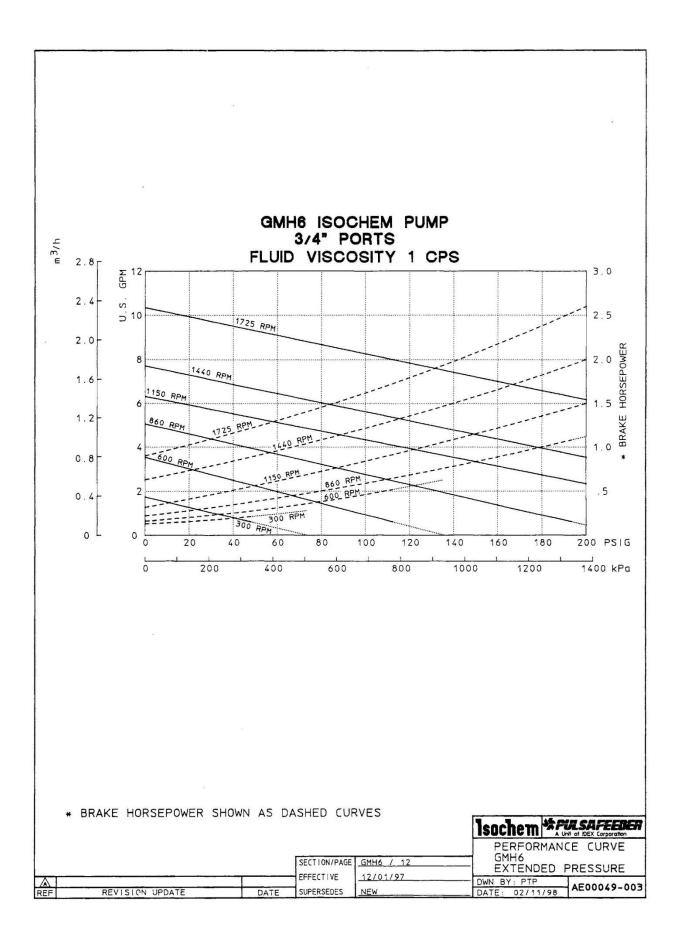
SECTION: PAGE: DATE REV.: SUPERSEDES: MODEL GMC6 206 06/24/14 11/12/12

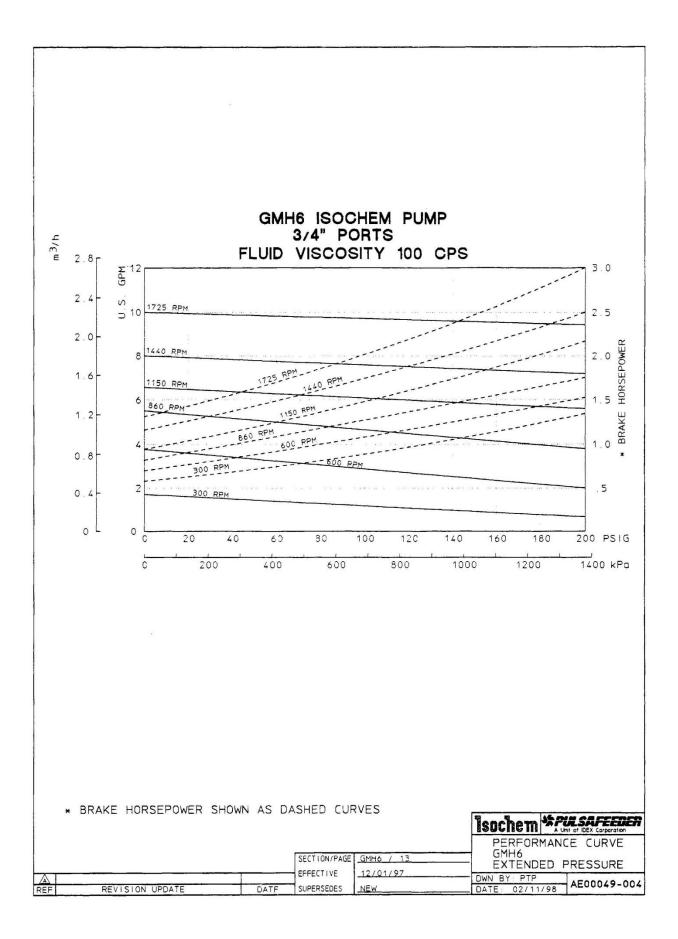
		1			STANDARD PU	MP MATERIAI			٦
			316	iss	ALLC		ALLC	Y 20	-
			(A, K,		(C, M,		(D, N,		
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSITION 8	MAGNETIC COUPLING COMPONENTS								
001110110	HOUSING, FRONT	1	40144	31655	40145	ALLOY C	40148	ALLOY 20	3
	DRIVEN MAGNET ASSY	1	49738	31655	49739	ALLOY C	49740	ALLOY 20	18
		1	49672	31655	49605	ALLOY C	49605	ALLOY C	19
COMMON	CASING	1	49610	ALUMINUM	49610	ALUMINUM	49610	ALUMINUM	20
PARTS 7	#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			26
	PIUG, 1/8" NPT	*2	W772565-316	31655	52301	ALLOY C			27
								W770198-188         188 SS           52300         ATLOY 20           49731         STEEL           49627         ALUMINUM           16722         STEEL           W770424-STL         STEEL           49732         STEEL           49627         ALUMINUM	
6C FRAME CO	OMPONENTS								
	DRIVE MAGNET ASSEMBLY, 56C FR	1	49731	STEEL	49731	STEEL	49731	STEEL	21
-	MOTOR SPOOL	1	49627	ALUMINUM	49627	ALUMINUM	49627	ALUMINUM	29
F	BOLT, CASING	4	16722	STEEL	16722	STEEL	16722	STEEL	35
	BOLT, MOTOR	4	W770424-STL	STEEL	W770424-STL	STEEL	W770424-STL	STEEL	23
40TC 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
U	BOLT, CASING	4	16722	STEEL	16722	STEEL	16722	STEEL	35
	BOLT, MOTOR	4	W770424-STL	STEEL	W770424-STL	STEEL	W770424-STL	STEEL	23
	•								
182 / 4TC FRA	ME COMPONENTS								
	DRIVE MAGNET ASSEMBLY, 182 / 4TC	1	NG200057-STL	STEEL	NG200057-STL	STEEL	NG200057-STL	STEEL	21
	MOTOR SPOOL	1	49627	ALUMINUM	49627	ALUMINUM	49627	ALUMINUM	29
R	BOLT, CASING	4	16722	STEEL	16722	STEEL	16722	STEEL	35
IX.	BOLT, MOTOR	4	W770424-STL	STEEL	W770424-STL	STEEL	W770424-STL	STEEL	23
	ADAPTOR, MOTOR 182 / 4TC	1	NG110018-ALU	ALUMINUM	NG110018-ALU	ALUMINUM	NG110018-ALU	ALUMINUM	23
	ADAPTOR, SCREW	4	NP999006-STL	STEFL	NP999006-STL	STEFL	NP999006-STI	STEEL	23
30 METRIC FR/	AME COMPONENTS								_
	DRIVE MAGNET ASSEMBLY, 80 FR	1	49733	STEEL	49733	STEEL	49733	STEEL	21
к	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 FR/	AME COMPONENTS								
	DRIVE MAGNET ASSEMBLY, 90 FR	1	49734	STEEL	49734	STEEL	49734	STEEL	21
L	MOTOR SPOOL	1	49728	ALUMINUM	49728	ALUMINUM	49728	ALUMINUM	29
_	BOIT, 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

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 PU	MP MATERIAL			1
				316	SS	ALLO	YC	ALLO'	Y 20	
				(A, K, C	DR U)	(C, M, (	OR V)	(D, N, C	DR W)	
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEM
POSITION 3	STANDARD PUMP - NON-VARIBL	E COMPONENT:	S							
	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		1000 L	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

			HOUSING, CENTER - VENT FNPT		40002-2	316 SS	40006-2	ALLOY C	40008-2	ALLOY 20	2
		v	HOUSING, CENTER - VENT FBSPT	1	40011-2	316 SS	40023-2	ALLOY C	40017-2	ALLOY 20	2
		v	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
			HOUSING, REAR - BRG FLUSH	1	40247-2	316 SS	40248-2	ALLOY C	40249-2	ALLOY 20	3
		<u>^</u>	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
		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
		ь	# WEAR PLATE, RECIRCULATION		40527	CARBON	40527	CARBON	40527	CARBON	15
		IX.	# WEAR PLATE, RECIRCULATION	4	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: GMH6P200

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

 SECTION:
 MODEL GMH6

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 DATE REV.:
 11/12/12

 SUPERSEDES:
 11/12/04

								SUPERSEDES:	11/12/04	
						STANDARD PU	MP MATERIAL			1
				316	i SS	ALLC	ру с	ALLC	DY 20	
				(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 48	5 DRIVE AND IDLER GEAR MATERIAL									
A	# GEAR, DRIVE/IDLER	3/4"	1-2	40729	316 SS					6,7
С	# GEAR, DRIVE/IDLER	3/4"	1-2	40612	ALLOY C	40612	ALLOY C	40612	ALLOY C	6,7
E	# GEAR, IDLER	5/8"	1	40613	PEEK	40613	PEEK	40613	PEEK	7
POSITION 6 K	# WEAR PLATE MATERIAL # WEAR PLATE, SLOTTED			40511	CARBON	40511	CARBON	40511	CARBON	15
			_	han been a start the period				Production and and and and and and and and and an		15
T	# WEAR PLATE, SLOTTED		4	40513	TFE (GF)	40513	TFE (GF)	40513	TFE (GF)	
Z	# WEAR PLATE, SLOTTED		_	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									
	# SHAFT, DRIVE		1	41415	316 SS	41423	ALLOY C	41424	ALLOY 20	4
	# SHAFT, IDLER	5/8"		41434	316 SS	41435	ALLOY C	41436	ALLOY 20	5
к	# SHAFT, IDLER METAL GEAR	3/4"	1	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	2/2	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"	1	41428	316 SS	41439	ALLOY C	41430	ALLOY 20	5
	# BEARING, DRIVE/IDLER SHAFT	3/4"	2-4	41428	TFE (GF)	40438	TFE (GF)	41430	TFE (GF)	12
	# BEARING, IDLER SHAFT	5/8"	0-2	40438	TFE (GF)	40438	TFE (GF)	40438	TFE (GF)	12
	# BEARING, IDLER SHAFT	5/6	0-2	40434	Tre (Gr)	40454	TFE (OF)	40454	1FE (GF)	15
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
	FE - BEARINGS AND SHAFTS									
	# SHAFT, DRIVE		1	41425	CW / 316 SS	41426	CW / ALY C	41427	CW / ALY20	4
	# SHAFT, IDLER	5/8"	1	41423	CW / 316 33	41426	CW / ALY C	41427	CW / ALY20	5
с	# SHAFT, IDLER # SHAFT, IDLER METAL GEAR	CA922104	1	41437		41438	CINENT OBCURGED	41439		5
e.		3/4"	-	A180397640550	CW / 316 SS	41432	CW / ALY C	PINCERS STUDIES	CW / ALY20	
	# BEARING, DRIVE/IDLER SHAFT	3/4"	2-4	40437	EWCBN	2010	EWCBN	40437	EWCBN	12, 13
	# BEARING, IDLER SHAFT	5/8"	0-2	40433	EWCBN	40433	EWCBN	40433	EWCBN	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"	1	41437	CW / 316 SS	41438	CW / ALY C	41439	CW / ALY20	5
В	# SHAFT, IDLER METAL GEAR	3/4"	Ť.	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

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					STANDARD PU	MP MATERIAL			-
			316	i SS	ALLC	DY C	ALLO	Y 20	1
			(A, K,	OR U)	(C, M,	OR V)	(D, N, (	OR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITE
OSITION 8	MAGNETIC COUPLING COMPONENTS								
	DRIVEN MAGNET ASSY	1	49697	316 SS	49707	ALLOY C	49708	ALLOY 20	2
	BOLT, FRONT HOUSING/ADAPTOR	8	W770407-188	188 SS	W770407-188	188 SS	W770407-188	188 SS	2
	# O RING, CONTAINMENT CAN	1	W210422-TFE	TFE	W210422-TFE	TFE	W210422-TFE	TFE	2
COMMON	SCREW, SET	2	W771004-030	STEEL	W771004-030	STEEL	W771004-030	STEEL	3.
PARTS	PIN, DRIVE MAGNET/HOLDER	2	W771209-003	STEEL	W771209-003	STEEL	W771209-003	STEEL	3.
	SCREW, SKHD DRIVE MAGNET/HOLDER	4	W770027-188	188 SS	W770027-188	188 SS	W770027-188	188 SS	3
	CAN, CONTAINMENT	1	49674	ALLOY C	49674	ALLOY C	49674	ALLOY C	2
	SCREW, CONTAINMENT CAN RING	8	W770021-188	188 SS	W770021-188	188 SS	W770021-188	188 SS	2
COMMON	HOLDER, DRIVE MAGNET	1	49705	STEEL	49705	STEEL	49705	STEEL	3
43/5TC, 1840		1.4	40705	6755	40705	ATEL	40705	CTER	
PARTS	ADAPTOR, MOTOR	1	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	3
PARTS	BOLT, MOTOR	4	W770425-188	188 SS	W770425-188	188 SS	W770425-188	188 SS	4
NGLE CONTA	INMENT CAN COMPONENTS								
0	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	3
U	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	2
OUBLE CONT	AINMENT CAN COMPONENTS			,	n				
	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	3
D	CAN ASSY, CONTAINMENT	1	49698	316 SS	49699	ALLOY C	49700	ALLOY 20	2
U	# O RING, CONTAINMENT CAN	*1	W210422-TFE	TFE	W210422-TFE	TFE	W210422-TFE	TFE	2
	NIPPLE, 1/8" NPT X 2.00	2	W773965-208	316 SS	W773965-235	ALLOY C	W773965-145	ALLOY 20	6
OOL FRAME C	OMPONENTS								
COMMON	HOLDER, DRIVE MAGNET	1	49718	STEEL	49718	STEEL	49718	STEEL	3

COMMON	HOLDER, DRIVE MAGNET	1	49718	STEEL	49718	STEEL	49718	STEEL	30
PARTS	ADAPTOR, MOTOR	1	Y1101000-ALU	ALUMINUM	Y1101000-ALU	ALUMINUM	Y1101000-ALU	ALUMINUM	36
PANIS	BOLT, MOTOR (METRIC)	4	W770533-188	188 SS	W770533-188	188 SS	W770533-188	188 SS	41
SINGLE CONT/	AINMENT CAN COMPONENTS								
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	FAINMENT 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
Q	# O RING, CONTAINMENT CAN	*1	W210422-TFE	TFE	W210422-TFE	TFE	W210422-TFE	TFE	25
	NIPPLE, 1/8" NPT X 2.00	2	W773965-208	316 SS	W773965-235	ALLOY C	W773965-145	ALLOY 20	66

\*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

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 DATE REV.:
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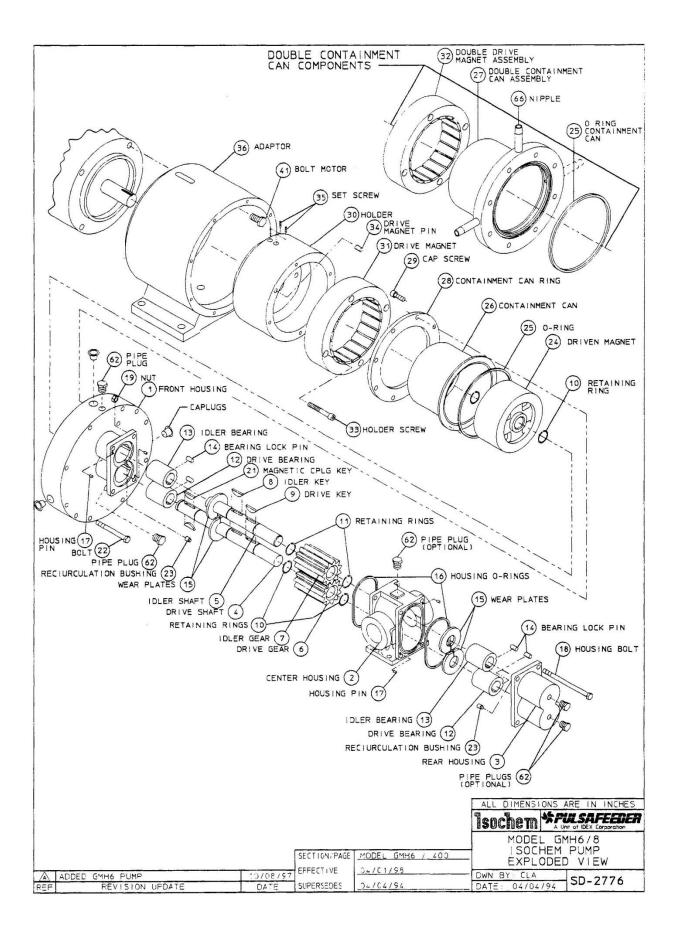
 SUPERSEDES:
 02/12/01

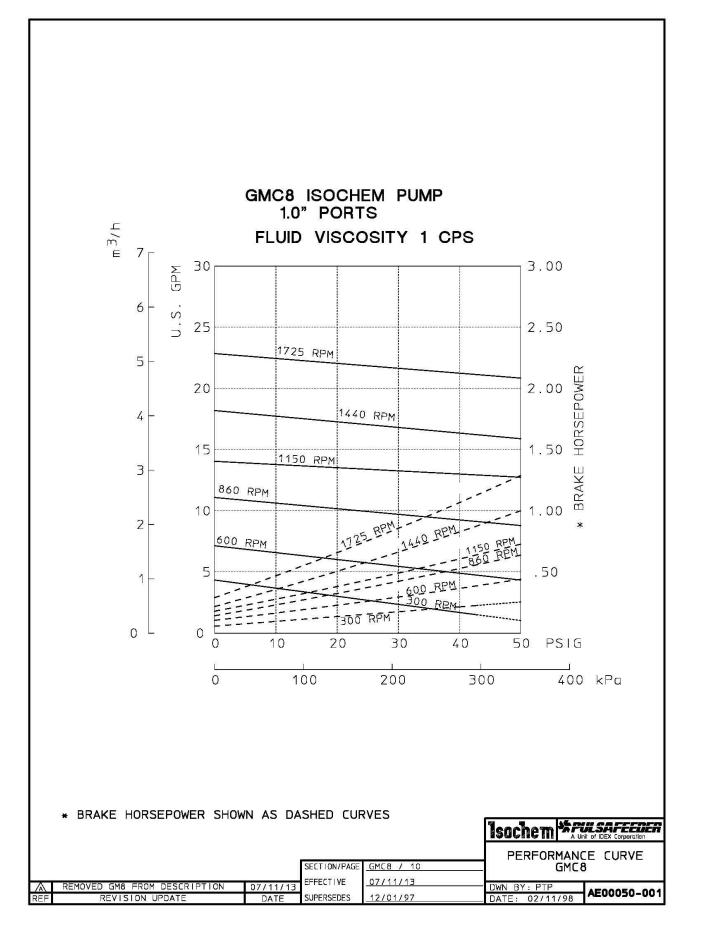
		1			STANDARD PU	MP MATERIAL			1
			316	SS	ALLC	DY C	ALLO	Y 20	1
			(A, K,	ORU)	(C, M,	OR V)	(D, N, 0	DR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEN
OSITION 8	MAGNETIC COUPLING COMPONENTS								
	DRIVEN MAGNET ASSY	1	49697	316 SS	49707	ALLOY C	49708	ALLOY 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 PARTS	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
82/41C FRAM	HE COMPONENTS HOLDER, DRIVE MAGNET	1	49757	IRON	49757	IRON	49757	IRON	30
	ADAPTOR, MOTOR	Ĩ	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	30
	SCREW, MOTOR	4	W770580-STL	STEEL	W770580-STL	STEEL	W770580-STL	STEEL	6
COMMON	ADAPTOR, PLATE	1	Y1101600-STL	STEEL	Y1101600-STL	STEEL	Y1101600-STL	STEEL	6
PARTS	BOLT, ADAPTOR PLATE	4	W770425-188	188 SS	W770425-188	188 SS	W770425-188	188 SS	4
	WASHER, LOCK	4	W771108-188	188 SS	W771108-188	188 SS	W771108-188	188 SS	6
	SCREW, SET	2	W771004-030	STEEL	W771004-030	STEEL	W771004-030	STEEL	35
SINGLE CONTA	INMENT CAN COMPONENTS								-
-	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	3:
R	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	28
OUBLE CONT	AINMENT CAN COMPONENTS					-			
	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	32
т	CAN ASSY, CONTAINMENT	1	49698	316 SS	49699	ALLOY C	49700	ALLOY 20	27
,	# O RING, CONTAINMENT CAN	*1	W210422-TFE	TFE	W210422-TFE	TFE	W210422-TFE	TFE	25
	NIPPLE, 1/8" NPT X 2.00	2	W773965-208	316 SS	W773965-235	ALLOY C	W773965-145	ALLOY 20	66
10/FTC FD 44									
13/DIU FRAN	HE 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	6
PARTS	ADAPTOR, PLATE	1	Y1101700-STL	STEEL	Y1101700-STL	STEEL	Y1101700-STL	STEEL	6
Linger Control	BOLT, ADAPTOR PLATE	4	W770426-188	188 SS	W770426-188	188 SS	W770426-188	188 SS	4
	SCREW, SET	2	W771004-046	STEEL	W771004-046	STEEL	W771004-046	STEEL	3
INGLE CONTA				51666		and the face for		and the last to	
	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	3
W	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	28

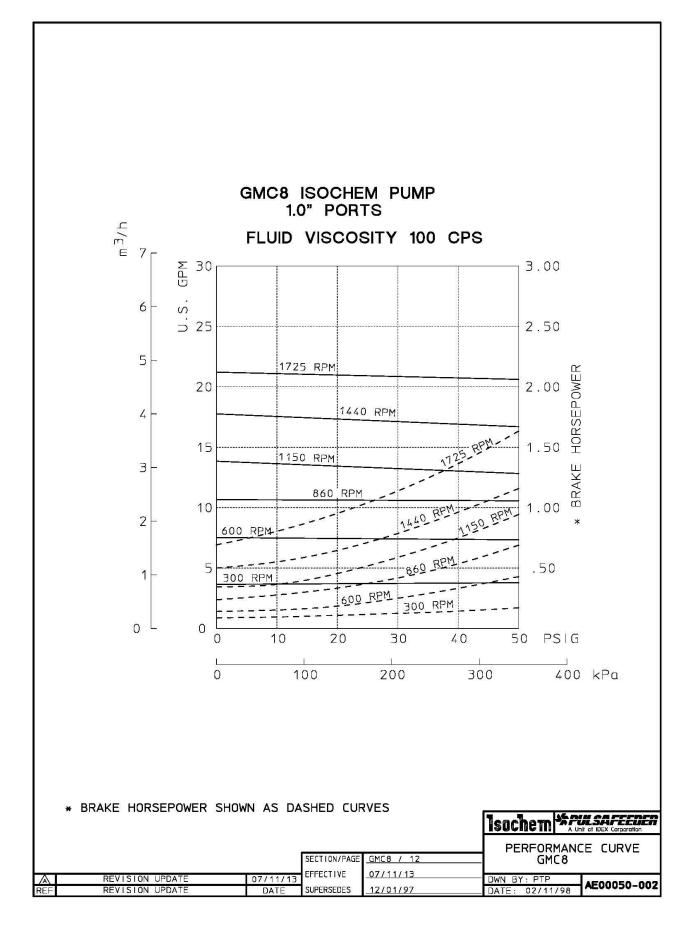
DOUBLE CONTAINMENT CAN COMPONENTS DRIVE MAGNET ASSY 1 49704 STEEL 49704 STEEL 49704 STEEL 32 CAN ASSY, CONTAINMENT 1 49698 316 SS 49699 ALLOY C 49700 ALLOY 20 27 Y # O RING, CONTAINMENT CAN \*1 W210422-TFE W210422-TFE W210422-TFE 25 TFE TFE TFE NIPPLE, 1/8" NPT X 2.00 2 W773965-208 316 SS W773965-235 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

	[	STANDARD PUMP MATERIAL							
		316	SS	ALLOY C AL			Y 20		
		(A, K, OR U)		(C, M, OR V)		(D, N, C	DRW)		
DESCRIPTION	QTY	PART NUMBER MATERIAL I		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	1	NG040007-316	316 SS	NG040007-HC0	ALLOY C	NG040007-020	ALLOY 20	2
	HOUSING, REAR		1	40218	316 SS	40219	ALLOY C	40220	ALLOY 20	1
	# RING, RETAINING		6	46713	316 SS	46701	ALLOY C	46701	ALLOY C	14
	# KEY, METAL DRIVE GEAR		*2	41937	316 SS	41903	ALLOY C	41905	ALLOY 20	8
	# KEY, PLASTIC DRIVE GEAR			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 SS	41210	188 SS	

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

		Ī		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
			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	27
			Α	HOUSING, REAR - BRG FLUSH	1	40224	316 SS	40231	ALLOY C	40234	ALLOY 20	1
			~	PLUG, 1/8" NPT	*2	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	27
		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
E				# WEAR PLATE, SLOTTED	1	40513	TFE (GF)	40513	TFE (GF)	40513	TFE (GF)	11
				# WEAR PLATE - NON-RECIRCULATION		40501	CARBON	40501	CARBON	40501	CARBON	11
			Е	# WEAR PLATE - NON-RECIRCULATION	4	40504	TFE (GF)	40504	TFE (GF)	40504	TFE (GF)	11
			Г	# 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

							SUPERSEDES.	11/12/04	
					STANDARD PU	MP MATERIAL			
			316	SS	ALLC	IY C	ALLC	IY 20	
			(A, K, C	DRU)	(C, M,	OR V)	(D, N,	OR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEN
POSITION 4 8	§ 5 DRIVE AND IDLER GEAR MATERIAL								
A	# GEAR, DRIVE / IDLER	1-2	40684	316 SS				2	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			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			40520	CARRON	40520	CARRON	10520	CARRON	1 4 4
к	# WEAR PLATE, RECIRCULATION		40520	CARBON	40520	CARBON	40520	CARBON	11
Z	# WEAR PLATE, RECIRCULATION	4	40521 40522	TFE (GF)	40521 40522	TFE (GF)	40521 40522	TFE (GF)	11
E	# WEAR PLATE, RECIRCULATION		40522	CERAMIC PEEK	40522	CERAMIC PEEK	40522	CERAMIC PEEK	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
CXTENDED /	WEAR - BOTH SHAFTS			llead		li es e di	1 10000	ll av tall	1
	# SHAFT, DRIVE	1	40332	"CW"	40306	"CW"	40332	"CW"	4
С	# SHAFT, IDLER	1	40333	"CW"	40308	"CW"	40333	"CW"	5
			40430			EWCBN	40430		9
	# BEARING, DRIVE / IDLER SHAFT	4	40430	EWCBN	40430	LWCDN	40450	EWCBN	3
CORROSION		4	40430	EWCBN	40430	LWCDN	40450	EWCDIN	
CORROSION	/ WEAR ("CW") - BOTH SHAFTS								
CORROSION ,		1	40430 40332 40333	"CW"	40306 40308	"CW"	40332 40333	"CW"	4

\*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 PUMP MATERIAL				
		316	5 S S	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 8 MAGNETIC COUPLING COMPONENTS

FOSTION 0	MPANE IIC COOP LING COMPONENTS								
	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
соммон	CONTAINMENT CAN	1	49672	316 SS	49605	ALLOY C	49605	ALLOY C	19
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
	BOLT, FRONT HOUSING	4	W770198-188	188 55	W770198-188	188 55	W770198-188	188 55	26
	PLUG, 1/8" NPT	*2	W772565-316	316.55	52301	ALLOY C	52300	ALLOY 20	27

#### 56C FRAME COMPONENTS

	DRIVE MAGNET ASSEMBLY, 56C FR	1	49731	STEEL	49731	STEEL	49731	STEEL	21
6	MOTOR SPOOL	1	49627	ALUMINUM	49627	ALUMINUM	49627	ALUMINUM	29
1 '	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 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
P	BOLT, CASING	4	16722	STEEL	16722	STEEL	16722	STEEL	35
N 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-STI	STEFI	NP999006-STI	STEFI	NP999006-STI	STEEL	

#### **80 METRIC FRAME COMPONENTS**

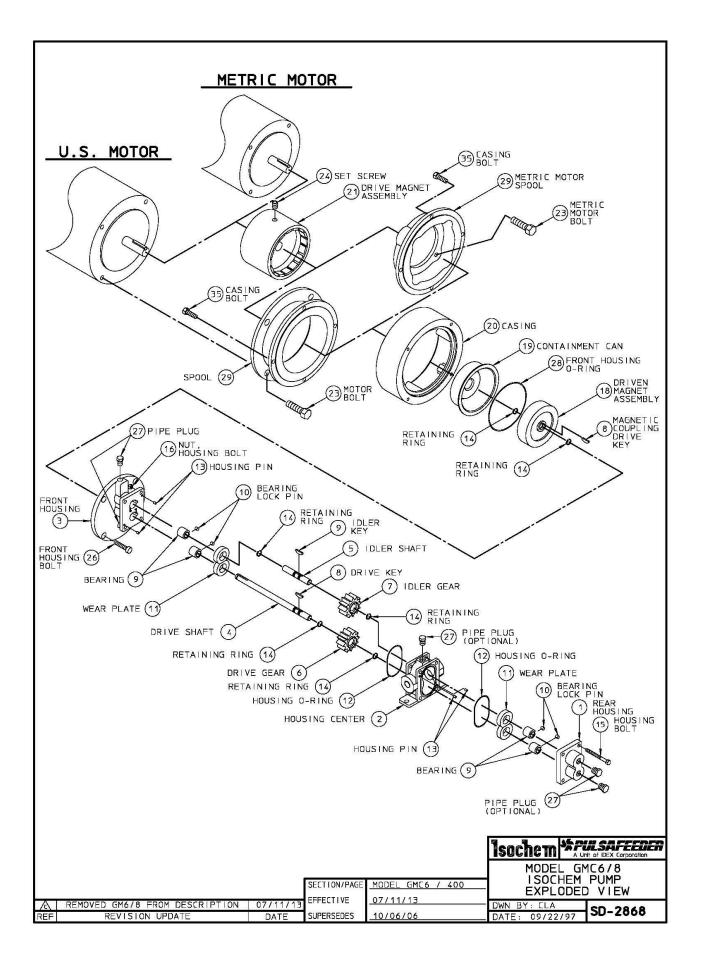
	DRIVE MAGNET ASSEMBLY, 80 FR	1	49733	STEEL	49733	STEEL	49733	STEEL	21
r v	MOTOR SPOOL	1	49727	ALUMINUM	49727	ALUMINUM	49727	ALUMINUM	29
, r	BOLT, CASING	4	16722	STEEL	16722	STEEL	16722	STEEL	35
	BOLT, MOTOR	4	NP990415-STL	STEEL	NP990415-STL	STEEL	NP990415-STL	STEEL	25

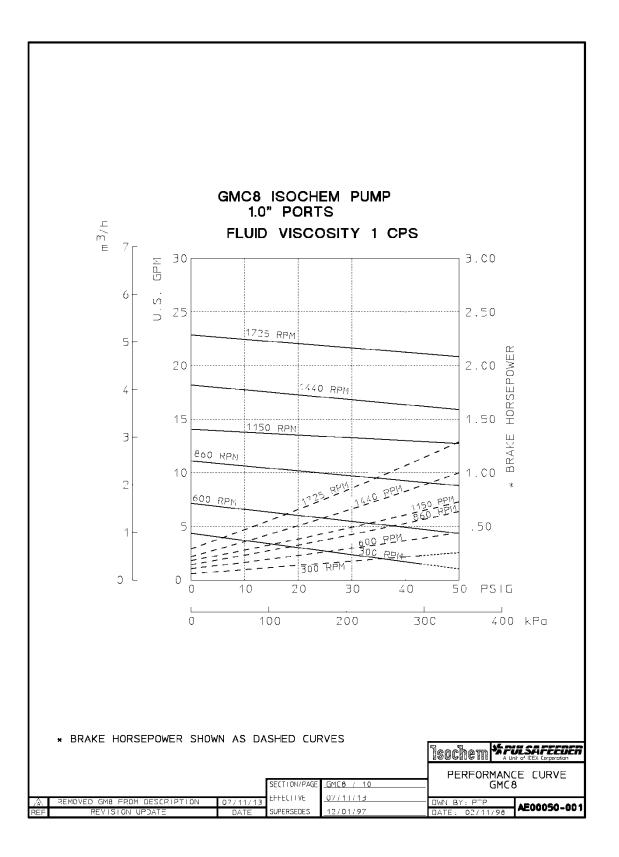
#### 90 METRIC FRAME COMPONENTS

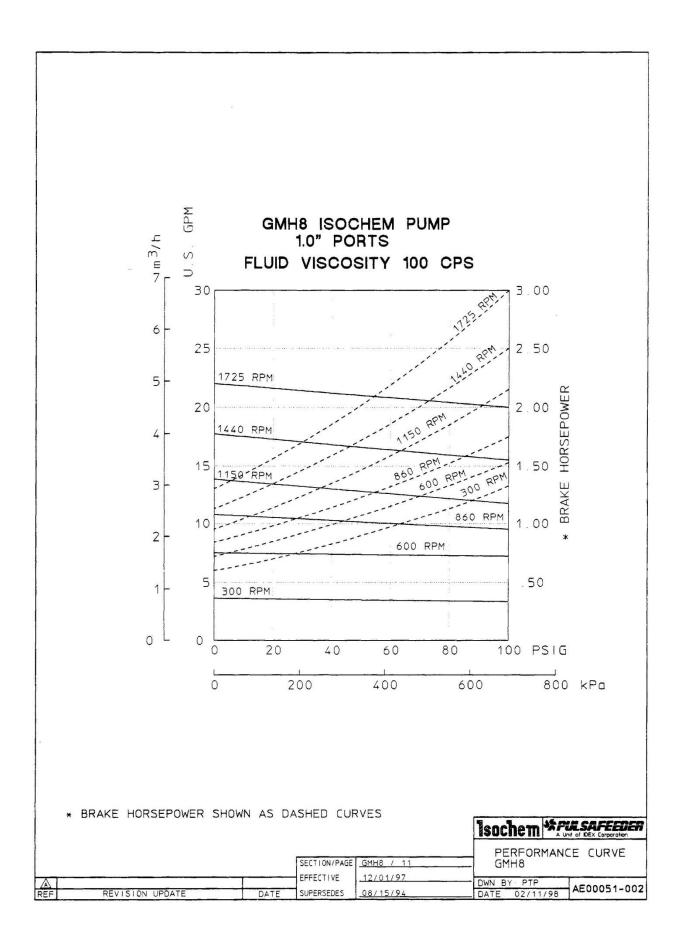
	DRIVE MAGNET ASSEMBLY, 90 FR	1	49734	STEEL	49734	STEEL	49734	STEEL	21
	MOTOR SPOOL	1	49728	ALUMINUM	49728	ALUMINUM	49728	ALUMINUM	29
L	BOIT, CASING	4	16722	STEFL	16722	STEFL	16722	STEEL	35
	BOLT, MOTOR	4	NP990478-STL	STEEL	NP990478-STL	STEEL	NP990478-STL	STEEL	25

\*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

				20							_
							STANDARD PU		-		
					316	Contractory of the second	ALLO		1 200 200 C	DY 20	
				_	(A, K,	and the second of the second o	(C, M,			OR W)	
			DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	IT
TION	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	1
			HOUSING, CENTER FBSPT	1	40064	316 SS	40065	ALLOY C	40066	ALLOY 20	
			HOUSING, CENTER FLANGED		NG040007-316	316 SS	NG040007-HC0	ALLOY C	NG040007-020	ALLOY 20	
			HOUSING, REAR	1	40247	316 SS	40248	ALLOY C	40249	ALLOY 20	
			# RING, RETAINING 3/4"	4-6	46714	316 SS	46711	ALLOY C	46711	ALLOY C	
			# RING, RETAINING 5/8"	0-2	Y9901400-316	316 SS	Y9901400-HC0	ALLOY C	Y9901400-HC0	ALLOY C	
			# KEY, METAL DRIVE GEAR	*2	41937	316 SS	41903	ALLOY C	41905	ALLOY 20	
			# KEY, MTL / CBN IDLER GEAR	*2	41937	316 SS	41903	ALLOY C	41905	ALLOY 20	
			# KEY, PLASTIC IDLER GEAR	<sup>~</sup> 2	41938	316 SS	41904	ALLOY C	41906	ALLOY 20	-
			# KEY, MAGNETIC CPLG - DRIVE	*2	41937	316 SS	41903	ALLOY C	41905	ALLOY 20	
			# PIN, BEARING LOCK	4	41811	TRE	41811	TFE	41811	TFE	
			# BUSHING, RECIRCULATION (.000)	1	99618-00	TFE	99618-00	TFE	99618-00	TFE	8
			# O RING, CENTER HOUSING	2	41101	TFE	41101	TFE	41101	TFE	
			PIN, HOUSING	4	40801	316 SS	40801	316 SS	40801	316 SS	
		BOLT, HOUSING		62006	188 SS	62006	188 SS	62006	188 SS		
			NUT, HOUSING PLUG, 1 / 8" NPT		62101	188 SS	62101	188 SS	62101	188 SS	
					W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	1
			NAMEPLATE	1	41210	188 SS	41210	188 SS	41210	188 SS	
IIION :	9,1 Г	0, A	ND 11 OPTIONS - DELETE CORRESPONDING STAN HOUSING, CENTER - VENT FNPT	DARD	40052-2	316 SS	40053-2	ALLOY C	40054-2	ALLOY 20	T
			HOUSING, CENTER - VENT FRSPT	1	40052-2	316 55	40055-2	ALLOY C	40054-2	ALLOY 20	-
		۷	HOUSING, CENTER - VENT FLANGED	· · ·	NG040010-316	316 SS	NG040010-HC0	ALLOY C	NG040010-020	ALLOY 20	
			PLUG, 1/8" NPT	*1	W772565-316	316 55	52301	ALLOY C	52300	ALLOY 20	1
	-		HOUSING, REAR -BRG FLUSH	1	40247-2	316 SS	40248-2	ALLOY C	40249-2	ALLOY 20	52
		А	PLUG, 1/8" NPT	*2	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	1
8	c۲		# PIN, BEARING LOCK	4	41812	316 55	41813	ALLOY C	41814	ALLOY 20	
	~	10000	# O RING, CENTER HOUSING	2	41012	SS / PFA	41815	SS / PFA	41814	SS / PFA	-
		10.00	# O RING, CONTANMENT CAN	1-2	W210422-002	SS / PFA	W210422-002	SS / PFA	W210422-002	SS / PFA	1
			# BEARING, SLOTTED 3/4"	0-4	40442	CARBON	40442	CARBON	40442	CARBON	
D			# BEARING, SLOTTED 5/8"	0-2	40440	CARBON	40440	CARBON	40440	CARBON	-
U	Т		HOUSING, REAR -RECIRCULATION	1	40247-3	316 SS	40248-3	ALLOY C	40440	ALLOY 20	+
			# BUSHING, RECIRCULATION (.060)	2	99618-06	TFE	99618-06	TFE	99618-06	TFE	
			# WEAR PLATE, RECIRCULATION	~	40527	CARBON	40527	CARBON	40527	CARBON	8
		R	# WEAR PLATE, RECIRCULATION		40527	TFE (GF)	40529	TFE (GF)	40529	TFE (GF)	-
			# WEAR PLATE, RECIRCULATION	4	40523	CERAMIC	40528	CERAMIC	40528	CERAMIC	
			# WEAR PLATE, RECIRCULATION		40528	PEEK	40530	PEEK	40530	PEEK	
	H				40530	TELIN	40550	I LLIX	40550	I LLIN	$+ \frac{1}{2}$

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

## ISOCHEM GMH8 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GMH8

 PAGE:
 201

 DATE REV.:
 11 / 12 / 12

 SUPERSEDES:
 11 / 12 / 04

						andersene-ones -or <b>e</b> n tablet		SUPERSEDES:	11/12/04	
						STANDARD PUN	AP MATERIAL		-	٦
				316	SS	ALLO	YC	ALLO	Y 20	
				(А, К, С	DRU)	(C, M, C	DR V)	(D, N, 0	)RW)	
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITE
DSITION 4 &	5 DRIVE AND IDLER GEAR MATERIAL									
A	# GEAR, DRIVE / IDLER	3/4"	1-2	40730	316 SS					6,
С	# GEAR, DRIVE / IDLER	3/4"	1-2	40605	ALLOY C	40605	ALLOY C	40605	ALLOY C	6,
К	# GEAR, IDLER	5/8"		40606	CARBON	40606	CARBON	40606	CARBON	0
т	# GEAR, IDLER	5/8"	0-1	40608	TFE (GF)	40608	TFE (GF)	40608	TFE (GF)	
E	# GEAR, IDLER	5/8"		40609	PEEK	40609	PEEK	40609	PEEK	
SITION 6	# WEAR PLATE, SLOTTED			40511	CARBON	40511	CARBON	40511	CARBON	
Ť	# WEAR PLATE, SLOTTED		-	40513	TFE (GF)	40513	TFE (GF)	40513	TFE (GF)	
z	# WEAR PLATE, SLOTTED		4	40515	CERAMIC	40525	CERAMIC	40515	CERAMIC	
Ē	# WEAR PLATE, SLOTTED		-	40526	PEEK	40526	PEEK	40526	PEEK	
-				10020		IUGEU				_
SITION 7 ANDARD CO	SHAFT AND BEARING MATERIAL DNSTRUCTION		1	41270	216.55	41371	ALLOYC	41272	411.07.20	-
	# SHAFT, DRIVE	E (0)	1	41370	316 SS	41371	ALLOY C	41372	ALLOY 20	-
К	# SHAFT, IDLER	5/8" 3/4"	1	41337	316 SS	41338	ALLOY C	41339	ALLOY 20	-
ĸ	# SHAFT, IDLER METAL GEAR # BEARING, DRIVE / IDLER SHAFT	3/4	2-4	41342 40436	316 SS CARBON	41343 40436	ALLOY C CARBON	41344 40436	ALLOY 20 CARBON	-
	# BEARING, DLER SHAFT	5/8"	0-2	40436	CARBON	40438	CARBON	40438	CARBON	
	# SHAFT, DRIVE	5/6	1	40432	316 SS	40432	ALLOY C	40432	ALLOY 20	-
	# SHAFT, IDLER	5/8"		41370	316 SS	41371	ALLOY C	41372	ALLOY 20	
Ĩ	# SHAFT, IDLER METAL GEAR	3/4"	- 1	41342	316 SS	41343	ALLOY C	41335	ALLOY 20	
	# BEARING, DRIVE / IDLER SHAFT	3/4"	2-4	40437	EWCBN	40437	EWCBN	40437	EWCBN	+
	# BEARING, IDLER SHAFT	5/8"	0-2	40433	EWCBN	40433	EWCBN	40433	EWCBN	-
	# SHAFT, DRIVE	575	1	41370	316 SS	41371	ALLOY C	41372	ALLOY 20	+
	# SHAFT, IDLER	5/8"	1	41337	316 SS	41338	ALLOY C	41339	ALLOY 20	
°T	# SHAFT, IDLER METAL GEAR	3/4"	1	41342	316 SS	41343	ALLOY C	41344	ALLOY 20	
	# BEARING, DRIVE / IDLER SHAFT	3/4"	2-4	40438	TFE (GF)	40438	TFE (GF)	40438	TFE (GF)	
	# BEARING, IDLER SHAFT	5/8"	0-2	40434	TFE (GF)	40434	TFE (GF)	40434	TFE (GF)	
ENDED / \	WEAR - BOTH SHAFTS # SHAFT, DRIVE		1	41396	CW / 316 SS	41397	CW / ALY C	41398	CW / ALY20	T
	# SHAFT, IDLER	5/8"		41354	CW / 316 SS	41355	CW / ALY C	41356	CW / ALY20	
С	# SHAFT, IDLER METAL GEAR	3/4"	1	41365	CW / 316 SS	41366	CW / ALY C	41367	CW / ALY20	
	# BEARING, DRIVE 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	
		5,0	0 -	10100	200000	10100	LUUDIN	10 100	2110011	_
RROSION /	WEAR ("CW") - BOTH SHAFTS		ñ	6.14 00 MEM 33		T construction of	endelte så skelant setter om fi	(		
	# SHAFT, DRIVE		1	41396	CW / 316 SS	41397	CW / ALY C	41398	CW / ALY20	

	# 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
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			
			316	SS	ALLC	IY C	ALLO	Y 20	
			(A, K, G	ORU)	(C, M,	OR V)	(D, N, 0	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
<b>143 / 5TC, 184</b> COMMON	C FRAME COMPONENTS 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
PANTS	BOLT, MOTOR	4	W770425-188	188 SS	W770425-188	188 SS	W770425-188	188 SS	41
SINGLE CONT/	AINMENT CAN COMPONENTS						-		<i>6</i>
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 CON	TAINMENT CAN COMPONENTS				n				
	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
				TEE	W210422-TFE	TFE	W210422-TEE	TEE	
U	# O RING, CONTAINMENT CAN	*1	W210422-TFE	IFE	WV210422-IFE	1 FE	WZIU4ZZ-IFE	IFE	25

#### **100 FRAME COMPONENTS**

COMMON	HOLDER, DRIVE MAGNET	1	49718	STEEL	49718	STEEL	49718	STEEL	30
PARTS	ADAPTOR, MOTOR	1	Y1101000-ALU	ALUMINUM	Y1101000-ALU	ALUMINUM	Y1101000-ALU	ALUMINUM	36
PARTS	BOLT, MOTOR (METRIC)	4	W770533-188	188 SS	W770533-188	188 SS	W770533-188	188 SS	41
SINGLE CONTA	INMENT CAN COMPONENTS								
P	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	AINMENT 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
Q	# O RING, CONTAINMENT CAN	*1	W210422-TFE	TFE	W210422-TFE	TFE	W210422-TFE	TFE	25
	NIPPLE, 1/8" NPT X 2.00	2	W773965-208	316 SS	W773965-235	ALLOY C	W773965-145	ALLOY 20	66

\*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:
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 DATE REV.:
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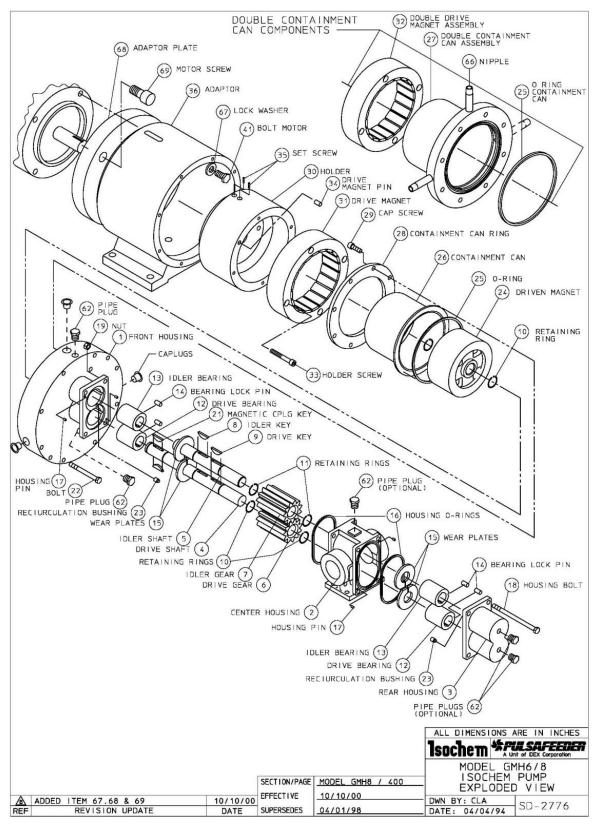
 SUPERSEDES:
 02 / 12 / 01

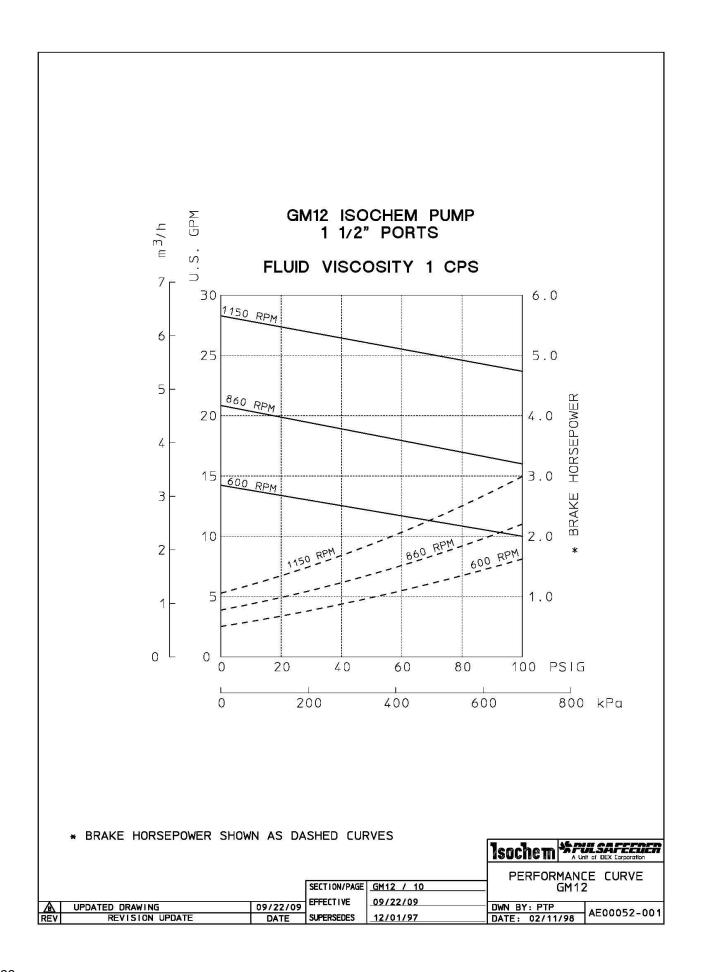
		1			STANDARD PU	MP MATERIAL			-
			316	i SS	ALLO	DY C	ALLO	Y 20	1
		-	(A, K,	OR U)	(C, M,	OR V)	(D, N, C	DR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITE
OSITION 8	MAGNETIC COUPLING COMPONENTS								
	DRIVEN MAGNET ASSY	1	49697	316 SS	49707	ALLOY C	49708	ALLOY 20	2
	BOLT, FRONT HOUSING / ADAPTOR	8	W770407-188	188 SS	W770407-188	188 SS	W770407-188	188 SS	2
	# O RING, CONTAINMENT CAN	1	W210422-TFE	TFE	W210422-TFE	TFE	W210422-TFE	TFE	2
COMMON PARTS	PIN, DRIVE MAGNET / HOLDER	2	W771209-003	STEEL	W771209-003	STEEL	W771209-003	STEEL	3
PARTS	SCREW, SKHD DRIVE MAGNET / HOLDER	4	W770027-188	188 SS	W770027-188	188 SS	W770027-188	188 SS	3
	CAN, CONTAINMENT	1	49674	ALLOY C	49674	ALLOY C	49674	ALLOY C	2
	SCREW, CONTAINMENT CAN RING	8	W770021-188	188 SS	W770021-188	188 SS	W770021-188	188 SS	2
.82 / 4TC FRA		1	49757	IRON	49757	IRON	49757	IRON	3
	HOLDER, DRIVE MAGNET	1	10000	113,412,5	0.000.000.0	100000000000	MEX.EX		_
	ADAPTOR, MOTOR	4	Y1100700-ALU W770580-STL		Y1100700-ALU W770580-STL	ALUMINUM	Y1100700-ALU W770580-STL		3
COMMON	SCREW, MOTOR	2000		STEEL		STEEL		STEEL	6
PARTS -	ADAPTOR, PLATE	4	Y1101600-STL	STEEL 188 SS	Y1101600-STL	STEEL	Y1101600-STL	STEEL 188 SS	-
	BOLT, ADAPTOR PLATE	4	W770425-188		W770425-188	188 SS	W770425-188	Contract of the second	4
	WASHER, LOCK SCREW, SET	2	W771108-188 W771004-030	188 SS STEEL	W771108-188 W771004-030	188 SS STEEL	W771108-188 W771004-030	188 SS STEEL	3
		2	W771004-030	STEEL	W771004-030	SIEEL	W771004-030	STEEL	5
	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	3
R	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	2
OUBLE CONT			101110	01000	10110	01000	10110	01000	
	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	3
-	CAN ASSY, CONTAINMENT	1	49698	316 SS	49699	ALLOY C	49700	ALLOY 20	2
Т	# O RING, CONTAINMENT CAN	*1	W210422-TFE	TFE	W210422-TFE	TFE	W210422-TFE	TFE	2
	NIPPLE, 1/8" NPT X 2.00	2	W773965-208	316 SS	W773965-235	ALLOY C	W773965-145	ALLOY 20	6
213 / 5TC FRA	ME COMPONENTS			-					
	HOLDER, DRIVE MAGNET	1	49758	IRON	49758	IRON	49758	IRON	3
	ADAPTOR, MOTOR	1	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	Y1100700-ALU	ALUMINUM	3
COMMON	SCREW, MOTOR	4	W770068-188	188 SS	W770068-188	188 SS	W770068-188	188 SS	6
PARTS	ADAPTOR, PLATE	1	Y1101700-STL	STEEL	Y1101700-STL	STEEL	Y1101700-STL	STEEL	6
	BOLT, ADAPTOR PLATE	4	W770426-188	188 SS	W770426-188	188 SS	W770426-188	188 SS	4
	SCREW, SET	2	W771004-046	STEEL	W771004-046	STEEL	W771004-046	STEEL	
SINGLE CONT/	AINMENT CAN COMPONENTS								
W	DRIVE MAGNET ASSY	1	49702	STEEL	49702	STEEL	49702	STEEL	3
	RING, CONTAINMENT CAN	1	49719	316 SS	49719	316 SS	49719	316 SS	2

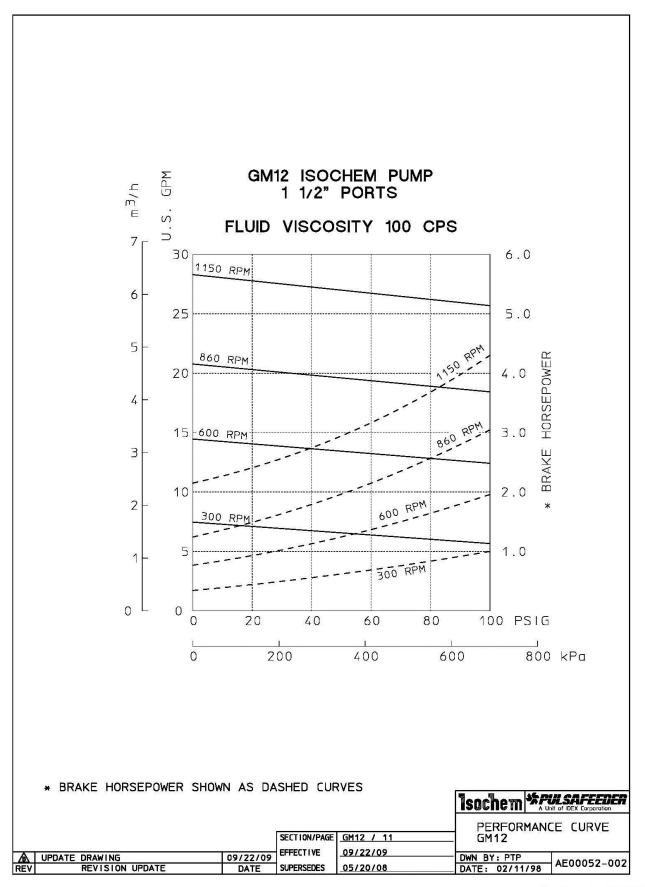
	RING, CONTAINMENT CAN	11	49719	316 55	49719	316 55	49719	316 55	28
DOUBLE COM	NTAINMENT CAN COMPONENTS								
	DRIVE MAGNET ASSY	1	49704	STEEL	49704	STEEL	49704	STEEL	32
10	CAN ASSY, CONTAINMENT	1	49698	316 SS	49699	ALLOY C	49700	ALLOY 20	27
5	# O RING, CONTAINMENT CAN	*1	W210422-TFE	TFE	W210422-TFE	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

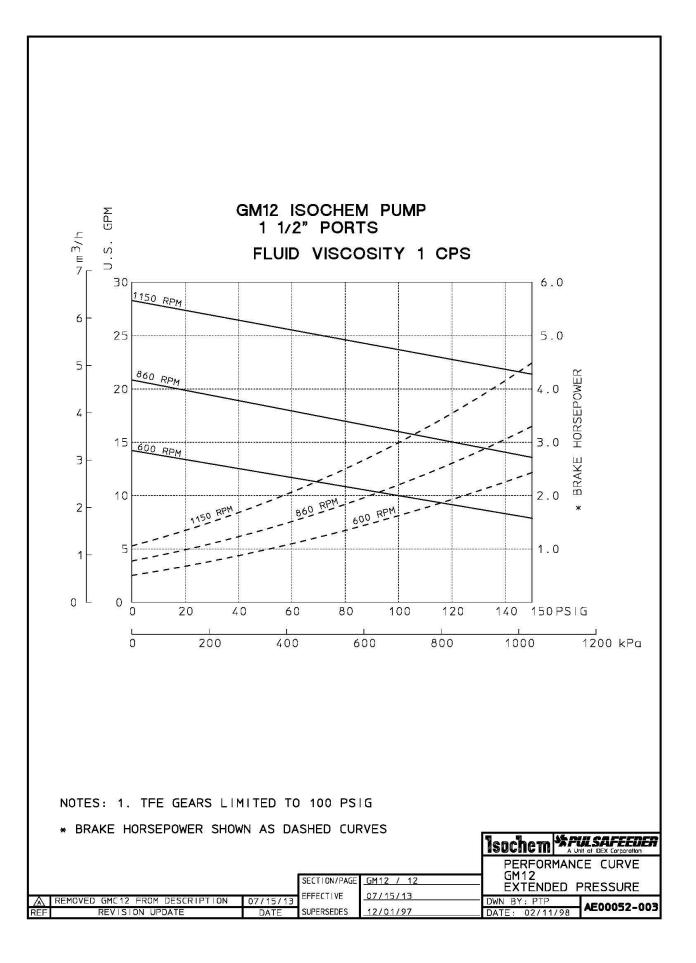
DWG: GMH8P203

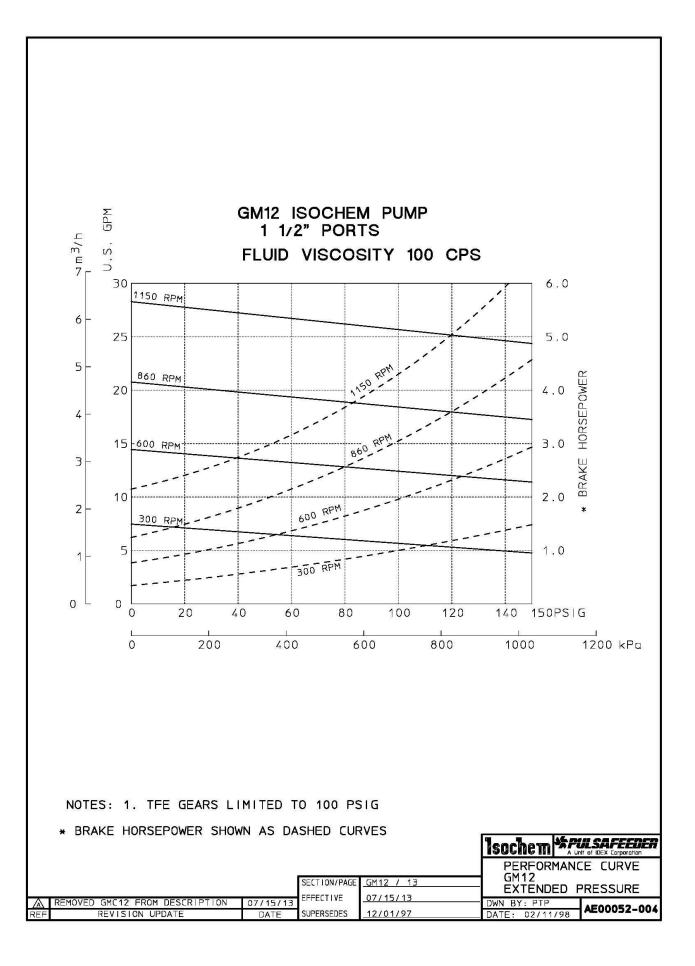






SPELOVERNME FOR PAR-SW Mailed





ITEM CLASS GM12 = IZ PRODUCT LINE = H / ISOCHEM

## ISOCHEM GM12 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GM12

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 DATE REV.:
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 SUPERSEDES:
 11/21/11

					STANDARD PU	MP MATERIAL			
	STRUCTURED WITH NO DASHES		316	SS	ALLC	DY C	ALLO	Y 20	1
	EXAMPLE: GM12XXXXXX		(A, K,	OR U)	(C, M,	OR V)	(D, N, C	DR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEN
OSITION 3	STANDARD PUMP - NON-VARIABLE COMPONE	NTS							
	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	23
	# PIN, BEARING LOCK	*4	90801	316 SS	90803	ALLOY C	90803	ALLOY C	14
	# BUSHING, RECIRCLATION (.000)	1	99618-00	TFE	99618-00	TFE	99618-00	TFE	23
	# O-RING, HOUSING	2	91101	TFE	91101	TFE	91101	TFE	16
	PIN, HOUSING	*4	90801	316 SS	90801	316 SS	90801	316 SS	17
	BOLT, CENTER HOUSING (ALL)	12	W770412-188	188 SS	W770412-188	188 SS	W770412-188	188 SS	18
	LOCKWASHER, HOUSING	12	W771107-188	188 SS	W771107-188	188 SS	W771107-188	188 SS	20
	PLUG, 1 / 8" NPT	**1	W772565-316	316 SS	52301	ALLOY C	52300	ALLOY 20	62
	PLUG, 1 / 4" NPT	4	16415	316 SS	16422	ALLOY C	16432	ALLOY 20	63
	NAMEPLATE	1	41210	188 SS	41210	188 SS	41210	188 SS	
OSITION 9, 1	10, AND 11 OPTIONS - DELETE CORRESPONDING ST	NDARI		NT FROM B / M					
	HOUSING, CENTER - VENT FNPT		90001-2	316 SS	90006-2	ALLOY C	90005-2	ALLOY 20	2
	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
В	# 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
5	# WEAR PLATE, RECIRCULATION		90516	CARBON	90516	CARBON	90516	CARBON	15
R	# WEAR PLATE, RECIRCULATION	1.	90517	TFE (GF)	90517	TFE (GF)	90517	TFE (GF)	15
	# WEAR PLATE, RECIRCULATION	- 4	90518	CERAMIC	90518	CERAMIC	90518	CERAMIC	15

	# 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							1000	8
	SHAFT, SLEEVED IDLER 3/4"	1	90397	316 SS					
HF	# SLEEVE SHAFT 1"	2	90391	316 SS	Constant Constant	(147987) (197087)		in the second	8
	# SCREW, SLEEVE	2	W770021-316	316 SS					
	# GEAR, IDLER 3/4"	1	90677	PEEK		1123300 11100		in the second se	
	# 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

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 SUPERSEDES:
 11/12/04

						STANDARD PU				
				316	SS	ALLC	DY C	ALLO	Y 20	
				(A, K,	OR U)	(C, M,	OR V)	(D, N, (	OR W)	
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITE
DSITION 4 8	& 5 DRIVE AND IDLER GEAR MATERIAL									
A	# GEAR, DRIVE/IDLER	1"	1-2	90679	316 SS			····· 1		6,
C	# GEAR, DRIVE/IDLER	1"	1-2	90627	ALLOY C	90627	ALLOY C	90627	ALLOY C	6,
ĸ	# GEAR, IDLER	3/4"	1.5	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"	0-1	90682	PEEK	90682	PEEK	90677	PEEK	7
	# GLAR, IDEER	3/4		30077	FLLK	30077	FLUX	30077	FLUK	
OSITION 6	WEAR PLATE MATERIAL									
K	# WEAR PLATE, SLOTTED		1	90503	CARBON	90503	CARBON	90503	CARBON	1
Т	# WEAR PLATE, SLOTTED			90510	TFE (GF)	90510	TFE (GF)	90510	TFE (GF)	1
z	# WEAR PLATE, SLOTTED		4	90512	CERAMIC	90512	CERAMIC	90512	CERAMIC	1
E	# WEAR PLATE, SLOTTED			90515	PEEK	90515	PEEK	90515	PEEK	1
-	# WEAK TEATE, STOTTED		2	30313	TER	30313	) EEK	30515	1 LEIK	1 40
OSITION 7	SHAFT AND BEARING MATERIAL									
1.0 - Contractor (1.0 - Contractor)	CONSTRUCTION									
	# BEARING, DRIVE/IDLER SHAF	1"	4	90437	EWCBN	90437	EWCBN	90437	EWCBN	12,
	# 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			4.1177101		2222		
Ľ	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
	# BEARING, DRIVE/IDLER SHAFT	1"	4	90428	TFE (GF)	90428	TFE (GF)	90428	TFE (GF)	12,
	# SHAFT, DRIVE	1	1	90367	316 SS	90368	ALLOY C	90369	ALLOY 20	12,
	# SHAFT, IDLER (METAL GEAR)	1"	T	90308	316 SS	90318	ALLOY C	90364	ALLOY 20	5
	IDLER SHAFT ASSEMBLY	3/4"	1				ALLOT C		ALLOT 20	
т	SHAFT, SLEEVED IDLER	5/4		90397	316 SS	90398	ALLOY C	90399	ALLOY 20	5
	SHAFT, SLEEVED IDLER SHAFT, SLEEVED IDLER (CBN GR)		1	90597	316 SS	90598	ALLOY C	90399 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	4
	# BEARING, SLTD DRV/IDL SHAFT	1"	4	90441	EWCBN	90441	EWCBN	90441	EWCBN	12,
		L	4	90367				90369		4
	# SHAFT, DRIVE	94 M	1	30003223319420	316 SS	90368	ALLOY C	COMP. IN CONTROLS	ALLOY 20	
	# SHAFT, IDLER (METAL GEAR)	1" 3/4"	1	90308	316 SS	90318	ALLOY C	90364	ALLOY 20	5
4		3/4		5255255	i jojeanata	19820373	ALLOY C	0262532	ABSORDE	105
	SHAFT, SLEEVED IDLER		1	90397	316 SS	90398	and a second second	90399	ALLOY 20	5
	SHAFT, SLEEVED IDLER (CBN GR)	T	2	99669 90391	316 SS	99670 90392	ALLOY C	99671	ALLOY 20	-
	# SLEEVE, SHAFT # SCREW, SLEEVE		2	W770021-316	316 SS 316 SS	90392 W770021-HC0	ALLOY C ALLOY C	90393 W770021-020	ALLOY 20 ALLOY 20	42
	# SCREVV, SLEEVE		Z	W770021-316	310.33	W770021-HC0	ALLUT	W770021-020	ALLUT ZU	4;
	VEAR - BOTH SHAFTS									
TENDED/V		ĩ"	4	90437	EWCBN	90437	EWCBN	90437	EWCBN	12,
	# BEARING, DRIVE/IDLER SHAFT # SHAFT, DRIVE	1	4	90437	CW / 316 SS	90437 90371	CW / ALY C	90437	CW / ALY20	4
		1"	1	90370	CW / 316 33	90374	CW / ALY C	90372	CW / ALY20	5
	# SHAFT, IDLER (METAL GEAR) IDLER SHAFT ASSEMBLY	3/4"	1	90575		90574		90375	CW/AL120	
С		5/4		6000200		1.0002000		Province:	2011/00/0	
	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	90394	CW / 316 SS	90395	CW / ALY C	90396	CW / ALY20	4
	# SCREW, SLEEVE		2	W770021-316	316 SS	W770021-HC0	ALLOY C	W770021-020	ALLOY 20	43
DROCION	(WEAD ("OW") DOT! CHASTS									
KRUSION/	WEAR ("CW") - BOTH SHAFTS			00420	616222	00420	0000	00420	CICED.	10
	# BEARING, DRIVE/IDLER SHAFT	1"	4	90439	SICBD	90439	SICBD	90439	SICBD	12,
	# SHAFT, DRIVE	411	1	90370	CW / 316 SS	90371	CW / ALY C	90372	CW / ALY20	4
	# SHAFT, IDLER (METAL GEAR)	1"	1	90373	CW / 316 SS	90374	CW / ALY C	90375	CW / ALY20	5
в	IDLER SHAFT ASSEMBLY	3/4"								1
65	SHAFT, SLEEVED IDLER		1	90397	316 SS	90398	ALLOY C	90399	ALLOY 20	5
	SHAFT, SLEEVED IDLER (CBN GR)	10000		99669	316 SS	99670	ALLOY C	99671	ALLOY 20	5
	# SLEEVE, SHAFT	1"	2	90394	CW / 316 SS	90395	CW / ALY C	90396	CW / ALY20	43
	# SCREW, SLEEVE		2	W770021-316	316 55	W770021-HC0	ALLOY C	W770021-020	ALLOY 20	

\*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

## ISOCHEM GM12 SERIES PUMP CONSOLIDATED B / M

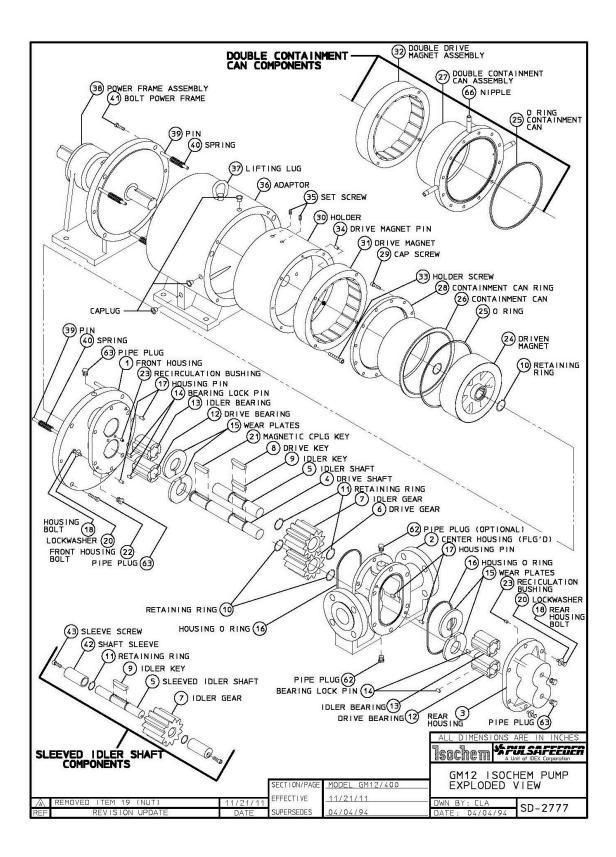
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 MODEL GM12

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 SUPERSEDES:
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					STANDARD PU	AP MATERIAL			
			316	i SS	ALLO	YC	ALLO	r 20	
			(A, K,	ORU)	(C, M, C	DR V)	(D, N, C	DR W)	
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	IT
OSITION 8	MAGNETIC COUPLING COMPONENTS								
	DRIVEN MAGNET ASSY	1	99626	316 SS	99627	ALLOY C	99628	ALLOY 20	2
	BOLT, FRONT HOUSING/ADAPTOR	*4	W770426-188	188 SS	W770426-188	188 SS	W770426-188	188 SS	2
	# O-RING, CONTAINMENT CAN	*1	W212172-TFE	TFE	W212172-TFE	TFE	W212172-TFE	TFE	2
	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	1
COMMON	CAN, CONTAINMENT	1	99600	ALLOY C	99600	ALLOY C	99600	ALLOY C	1
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	1
	ADAPTOR, POWERFRAME	1	99619	ALU	99619	ALU	99619	ALU	1
	LUG, LIFTING	1	W212304-STL	STL	W212304-STL	STL	W212304-STL	STL	1
	PIN	6	99641	188 SS	99641	188 SS	99641	188 SS	8
	SPRING	6	99642	188 SS	99642	188 SS	99642	188 SS	33
	BOLT, POWERFRAME	*4	W770426-188	188 SS	W770426-188	188 SS	W770426-188	188 SS	8
NGLE CONT/	AINMENT CAN COMPONENTS								
		1	99648	SIL	99648	311	99046	2	
R	POWERFRAME µ1.125 INPUT SHAFT DRIVE MAGNET ASSY	1	99648 99635	STL STL	99648 99635	STL STL	99648 99635	STL STL	-
R			TO PARTY OF THE PA	10000	1 December 2000	17-277-04-04-0		Processing and the	3
	DRIVE MAGNET ASSY RING, CONTAINMENT CAN	1	99635	STL	99635	STL	99635	STL	3
	DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS	1	99635 99630	STL 316 SS	99635 99630	STL 316 SS	99635 99630	STL 316 SS	100
	DRIVE MAGNET ASSY RING, CONTAINMENT CAN FAINMENT CAN COMPONENTS POWERFRAME #1.125 INPUT SHAFT	1	99635 99630 99648	STL 316 SS STL	99635 99630 99648	STL 316 SS STL	99635 99630 99648	STL 316 SS STL	
DUBLE CONT	DRIVE MAGNET ASSY RING, CONTAINMENT CAN FAINMENT CAN COMPONENTS POWERFRAME #1.125 INPUT SHAFT DRIVE MAGNET ASSY		99635 99630 99648 99638	STL 316 SS STL STL	99635 99630 99648 99648 99638	STL 316 SS STL STL	99635 99630 99648 99648	STL 316 SS STL STL	
	DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME #1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT		99635 99630 99648 99638 99631	STL 316 SS STL STL 316 SS	99635 99630 99648 99638 99632	STL 316 SS STL STL ALLOY C	99635 99630 99648 99638 99633	STL 316 SS STL STL ALLOY 20	
DUBLE CONT	DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME #1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT CAN ASSY	1 1 1 1 1 1 1 *1	99635 99630 99648 99638 99631 W212172-TFE	STL 316 SS STL STL 316 SS TFE	99635 99630 99648 99638 99632 W212172-TFE	STL 316 SS STL STL ALLOY C TFE	99635 99630 99648 99638 99633 W212172-TFE	STL 316 SS STL STL ALLOY 20 TFE	
DUBLE CON	DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME #1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT NIPPLE, 1/8" NPT X 2.00		99635 99630 99648 99638 99631	STL 316 SS STL STL 316 SS	99635 99630 99648 99638 99632	STL 316 SS STL STL ALLOY C	99635 99630 99648 99638 99633	STL 316 SS STL STL ALLOY 20	
T T ANDARD M	DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME #1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT CAN ASSY	1 1 1 1 1 1 1 *1	99635 99630 99648 99638 99631 W212172-TFE	STL 316 SS STL STL 316 SS TFE	99635 99630 99648 99638 99632 W212172-TFE	STL 316 SS STL STL ALLOY C TFE	99635 99630 99648 99638 99633 W212172-TFE	STL 316 SS STL STL ALLOY 20 TFE	
T T ANDARD M	DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME #1.125 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	99635 99630 99648 99638 99631 W212172-TFE	STL 316 SS STL STL 316 SS TFE	99635 99630 99648 99638 99632 W212172-TFE	STL 316 SS STL STL ALLOY C TFE	99635 99630 99648 99638 99633 W212172-TFE	STL 316 SS STL STL ALLOY 20 TFE	
T T ANDARD M	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 ANMENT CAN COMPONENTS	1 1 1 1 1 1 *1 2	99635 99630 99648 99638 99631 W212172-TFE W773965-208	STL 316 SS STL STL 316 SS TFE 316 SS	99635 99630 99648 99638 99632 W212172-TFE W773965-235	STL 316 SS STL ALLOY C TFE ALLOY C	99635 99630 99648 99638 99633 W212172-TFE W773965-145	STL 316 SS STL STL ALLOY 20 TFE ALLOY 20	
T T ANDARD M NGLE CONT/	DRIVE MAGNET ASSY RING, CONTAINMENT CAN AND A 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 ANMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT	1 1 1 1 1 1 *1 2	99635 99630 99648 99638 99631 W212172-TFE W773965-208 99649	STL 316 SS STL STL 316 SS TFE 316 SS STL	99635 99630 99648 99638 99632 W212172-TFE W773965-235 99649	STL 316 SS STL STL ALLOY C TFE ALLOY C STL	99635 99630 99638 99633 W212172-TFE W773965-145 99649	STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL	
T T ANDARD M NGLE CONT/	DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME #1.125 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 #28 MM INPUT SHAFT DRIVE MAGNET ASSY	1 1 1 1 1 •1 2	99635 99630 99648 99638 99631 W212172-TFE W773965-208 99649 99649 99635	STL           316 SS           STL           STL           316 SS           TFE           316 SS           STL           STL	99635 99630 99648 99638 99632 W212172-TFE W773965-235 99649 99649 99635	STL 316 SS STL STL ALLOY C TFE ALLOY C STL STL	99635 99630 99648 99638 99633 W212172-TFE W773965-145 99649 99649 99635	STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL STL	
T T ANDARD M NGLE CONT/ U	DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME #1.125 INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT # O RING, CONTAINMENT CAN ASSY NIPPLE, 1/8" NPT X 2.00 ETRIC MOUNTING ANMENT CAN COMPONENTS POWERFRAME #28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS	1 1 1 1 1 1 2 2	99635 99630 99638 99631 W212172-TFE W773965-208 99649 99635 99630	STL           316 SS           STL           316 SS           TFE           316 SS           STL           STE           316 SS           STE           316 SS           STL           STE	99635 99630 99638 99632 W212172-TFE W773965-235 99649 99635 99630	STL 316 SS STL STL ALLOY C TFE ALLOY C STL STL 316 SS	99635 99630 99638 99633 W212172-TFE W773965-145 99649 99635 99630	STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL STL 316 SS	
T T ANDARD M NGLE CONT/ U	DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME #1.125 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 #28 MM INPUT SHAFT TAINMENT CAN COMPONENTS POWERFRAME #28 MM INPUT SHAFT	1 1 1 1 1 1 *1 2 2 1 1 1 1 1 1	99635 99630 99638 99631 W212172-TFE W773965-208 99649 99635 99630 99649	STL           316 SS           STL           316 SS           TFE           316 SS           STL           STE           316 SS	99635 99630 99638 99632 W212172-TFE W773965-235 99649 99635 99630	STL 316 SS STL STL ALLOY C TFE ALLOY C STL STL 316 SS STL	99635 99630 99638 99633 W212172-TFE W773965-145 99649 99635 99630 99649	STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL STL 316 SS STL	
T T ANDARD M NGLE CONT/ U	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 TAINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY	1 1 1 1 1 *1 2 2 1 1 1 1 1 1 1 1 1	99635 99630 99638 99631 W212172-TFE W773965-208 99649 99635 99630 99649 99649 99638	STL           316 SS           STL           STL           316 SS           TFE           316 SS           STL           STL           STIS	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 STL STL	99635 99630 99648 99638 99633 W212172-TFE W773965-145 99649 99635 99630	STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL STL 316 SS STL STL STL	
T T TANDARD M NGLE CONT/ U	DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME #1.125 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 #28 MM INPUT SHAFT DRIVE MAGNET ASSY RING, CONTAINMENT CAN TAINMENT CAN COMPONENTS POWERFRAME #28 MM INPUT SHAFT DRIVE MAGNET ASSY CAN ASSY, CONTAINMENT	1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1	99635 99630 99638 99638 99631 W212172-TFE W773965-208 99649 99635 99630 99649 99638 99631	STL           316 SS           STL           STL           316 SS           TFE           316 SS           STL           STS           STL           STS           STL	99635 99630 99648 99638 99632 W212172-TFE W773965-235 W773965-235 99649 99635 99630 99649 99638 99632	STL 316 SS STL STL ALLOY C TFE ALLOY C STL 316 SS STL STL STL STL STL STL ALLOY C	99635 99630 99638 99633 W212172-TFE W773965-145 99649 99635 99630 99649 99638 99633	STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL 316 SS STL STL STL STL STL ALLOY 20	
T T TANDARD M NGLE CONT/ U DUBLE CONT	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 TAINMENT CAN COMPONENTS POWERFRAME µ28 MM INPUT SHAFT DRIVE MAGNET ASSY	1 1 1 1 1 *1 2 2 1 1 1 1 1 1 1 1 1	99635 99630 99638 99631 W212172-TFE W773965-208 99649 99635 99630 99649 99649 99638	STL           316 SS           STL           STL           316 SS           TFE           316 SS           STL           STL           STIS	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 STL STL	99635 99630 99648 99638 99633 W212172-TFE W773965-145 99649 99635 99630	STL 316 SS STL STL ALLOY 20 TFE ALLOY 20 STL STL 316 SS STL STL STL	



ITEM CLASS GM16 = IU PRODUCT LINE = H / ISOCHEM

## ISOCHEM GM16 SERIES PUMP CONSOLIDATED B / M

 SECTION:
 MODEL GM16

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 02/23/10

						STANDARD PUN	AP MATERIAL	ATERIAL		
	STRUCTURED WITH NO DASHES			316	SS	ALLO	YC	ALLO	Y 20	
	EXAMPLE: GM16XXXXXX			(U)		(∨)		(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 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, 1
	# 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
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
R	# WEAR PLATE, RECIRCULATION	4	90516	CARBON	90516	CARBON	90516	CARBON	15
n n	# 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: 201 201 10/17/14 11/12/12

				•			<b>/</b>	SUPERSEDES:	11/12/12	
						STANDARD PL	IMP MATERIAL			٦
				310	6 SS	ALL	DY C	ALLO	OY 20	1
					U)	(*	V)	()	W)	
	DESCRIPTION		QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITI
SITION 4 8	& 5 DRIVE AND IDLER GEAR MATERIAL									
А	# GEAR, DRIVE/IDLER	1"	1-2	90668	316 SS					6
С	# GEAR, DRIVE/IDLER	1"	1-2	90667	ALLOY C	90667	ALLOY C	90667	ALLOY C	6
К	# GEAR, IDLER	3/4"		90676	CARBON	90676	CARBON	90676	CARBON	
Т	# GEAR, IDLER	3/4"	0-1	90670	TFE (GF)	90670	TFE (GF)	90670	TFE (GF)	
E	# GEAR, IDLER	3/4"		90678	PEEK	90678	PEEK	90678	PEEK	
SITION 6	WEAR PLATE MATERIAL									
K	# WEAR PLATE, SLOTTED			90503	CARBON	90503	CARBON	90503	CARBON	
т	# WEAR PLATE, SLOTTED		-	90510	TFE (GF)	90510	TFE (GF)	90510	TFE (GF)	
Z	# WEAR PLATE, SLOTTED		4	90512	CERAMIC	90512	CERAMIC	90512	CERAMIC	
E	# WEAR PLATE, SLOTTED		-	90515	PEEK	90515	PEEK	90515	PEEK	
L	# WEAK PLATE, SLOTTED			30313	FLLK	30313	FLLK	30515		
SITION 7	SHAFT AND BEARING MATERIAL									
AN DARD C	ONSTRUCTION									
	# BEARING, DRIVE/IDLER SHAFT	1"	4	90437	EWCBN	90437	EWCBN	90437	EWCBN	12
	# SHAFT, DRIVE		1	90379	316 SS	90380	ALLOY C	90381	ALLOY 20	
	# SHAFT, IDLER (METAL GEAR)	1"	- 1	90349	316 SS	90351	ALLOY C	90350	ALLOY 20	
L	IDLER SHAFT ASSEMBLY	3/4"	٦ ٢							
	SHAFT, SLEEVED IDLER		1	99672	316 SS	99673	ALLOY C	99674	ALLOY 20	
	# SLEEVE, SHAFT	1"	2	90391	316 SS	90392	ALLOY C	90393	ALLOY 20	
	# SCREW, SLEEVE		2	W770021-316	316 SS	W770021-HC0	ALLOY C	W770021-020	ALLOY 20	
	# BEARING, DRIVE/IDLER SHAFT	1"	4	90428	TFE (GF)	90428	TFE (GF)	90428	TFE (GF)	12
	# SHAFT, DRIVE		1	90379	316 SS	90380	ALLOY C	90381	ALLOY 20	
	# SHAFT, IDLER (METAL GEAR)	1"		90349	316 SS	90351	ALLOY C	90350	ALLOY 20	
Т	IDLER SHAFT ASSEMBLY	3/4"	- 1							
	SHAFT, SLEEVED IDLER		1	99672	316 SS	99673	ALLOY C	99674	ALLOY 20	
	# SLEEVE, SHAFT	1"	2	90391	316 SS	90392	ALLOY C	90393	ALLOY 20	
	# SCREW, SLEEVE		2	W770021-316	316 SS	W770021-HC0	ALLOY C	W770021-020	ALLOY 20	
	# BEARING, SLTD DRV/IDL	1"	4	90441	EWCBN	90441	EWCBN	90441	EWCBN	12
	# SHAFT, DRIVE		1	90379	316 SS	90380	ALLOY C	90381	ALLOY 20	
	# SHAFT, IDLER (METAL GEAR)	1"	-	90349	316 SS	90351	ALLOY C	90350	ALLOY 20	
4	IDLER SHAFT ASSEMBLY	3/4"	- 1		51000					+
	SHAFT, SLEEVED IDLER		1	99672	316 SS	99673	ALLOY C	99674	ALLOY 20	
	# SLEEVE, SHAFT	1"	2	90391	316 SS	90392	ALLOY C	90393	ALLOY 20	
	# SCREW, SLEEVE	-	2	W770021-316	316 SS	W770021-HC0	ALLOY C	W770021-020	ALLOY 20	
	· · ·							<u> </u>		
TEN DED/W	VEAR - BOTH SHAFTS									
	# BEARING, DRIVE/IDLER SHAFT	1"	4	90437	EWCBN	90437	EWCBN	90437	EWCBN	12
	# SHAFT, DRIVE		1	90382	CW / 316 SS	90383	CW / ALY C	90384	CW / ALY20	
	# SHAFT, IDLER (METALIC GEAR)	1"	- 1	90385	CW / 316 SS	90386	CW / ALY C	90387	CW / ALY20	
С	IDLER SHAFT ASSEMBLY	3/4"								
	SHAFT, SLEEVED IDLER		1	99672	316 SS	99673	ALLOY C	99674	ALLOY 20	
	# SLEEVE, SHAFT	1"	2	90394	CW / 316 SS	90395	CW / ALY C	90396	CW / ALY20	
	# SCREW, SLEEVE		2	W770021-316	316 SS	W770021-HC0	ALLOY C	W770021-020	ALLOY 20	
RROSION/	WEAR ("CW") - BOTH SHAFTS		1.	00		0.0.7.7	au			<u>т.</u>
	# BEARING, DRIVE/IDLER SHAFT	1"	4	90439	SICBD	90439	SICBD	90439	SICBD	12
	# SHAFT, DRIVE		1	90382	CW / 316 SS	90383	CW / ALY C	90384	CW / ALY20	_
	# SHAFT IDLED (METALLC GEAD)	1"	1	00295	CW/ / 216 SS	00296	CW/AIVC	00297	CM/ ( A1V20	- 1

	# BEARING, DRIVE/IDLER SHAFT	1"	4	90439	SICBD	90439	SICBD	90439	SICBD	
	# SHAFT, DRIVE		1	90382	CW / 316 SS	90383	CW / ALY C	90384	CW / ALY20	
	# SHAFT, IDLER (METALIC GEAR)	1"	1	90385	CW / 316 SS	90386	CW / ALY C	90387	CW / ALY20	
В	IDLER SHAFT ASSEMBLY	3/4"	т							
	SHAFT, SLEEVED IDLER		1	99672	316 SS	99673	ALLOY C	99674	ALLOY 20	Γ
	# SLEEVE, SHAFT	1"	2	90394	CW / 316 SS	90395	CW / ALY C	90396	CW / ALY20	Γ
	# SCREW, SLEEVE		2	W770021-316	316 SS	W770021-HC0	ALLOY C	W770021-020	ALLOY 20	Г

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

DWG: GM16P201

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 SECTION:
 MODEL GM16

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 SUPERSEDES:
 04/01/98

				STANDARD PUMP MATERIAL						
			12/12/01/28/	316 SS (U)		ALLOY C (V)		ALLOY 20 (W)		
	DESCRIPTION	QTY	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	PART NUMBER	MATERIAL	ITEN	
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 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

	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

DOOBLE COI									
·	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

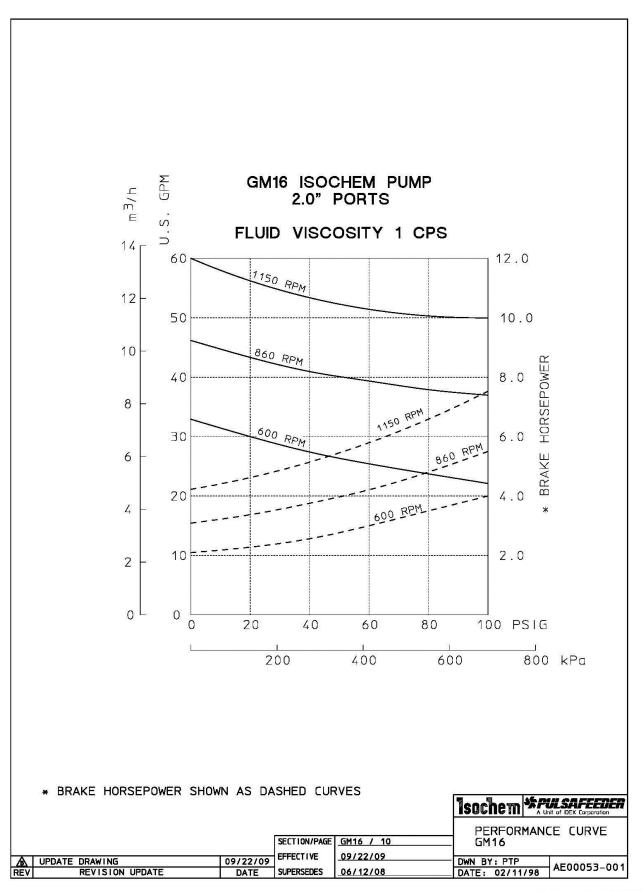
DWG: GM16P202

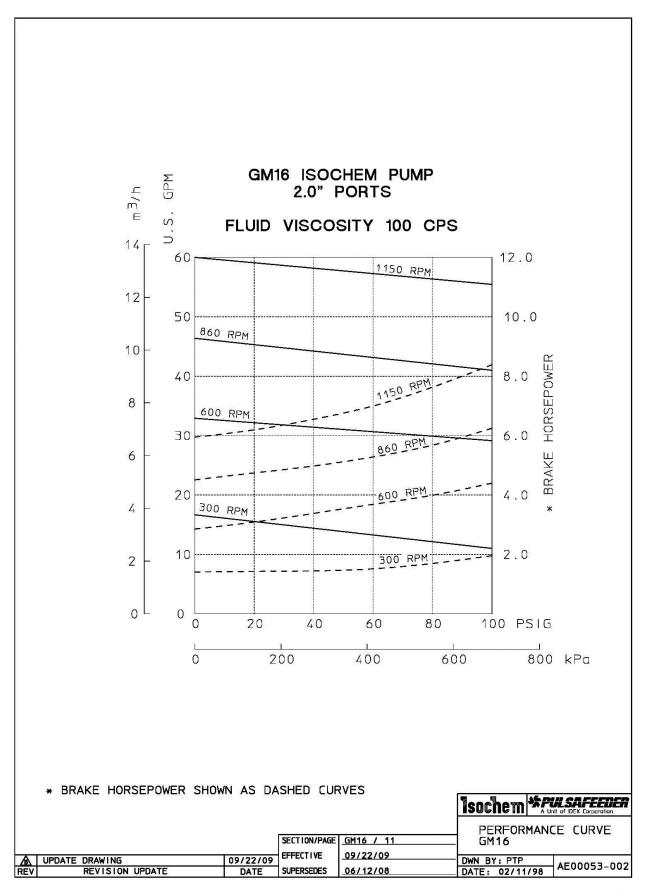
STL

STL

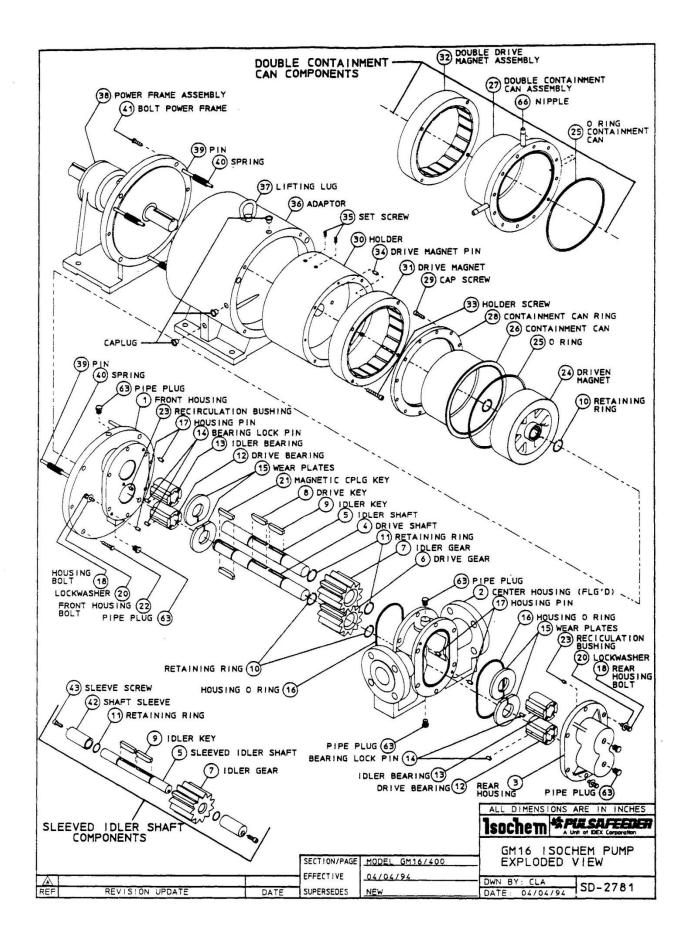
316 SS

38 31





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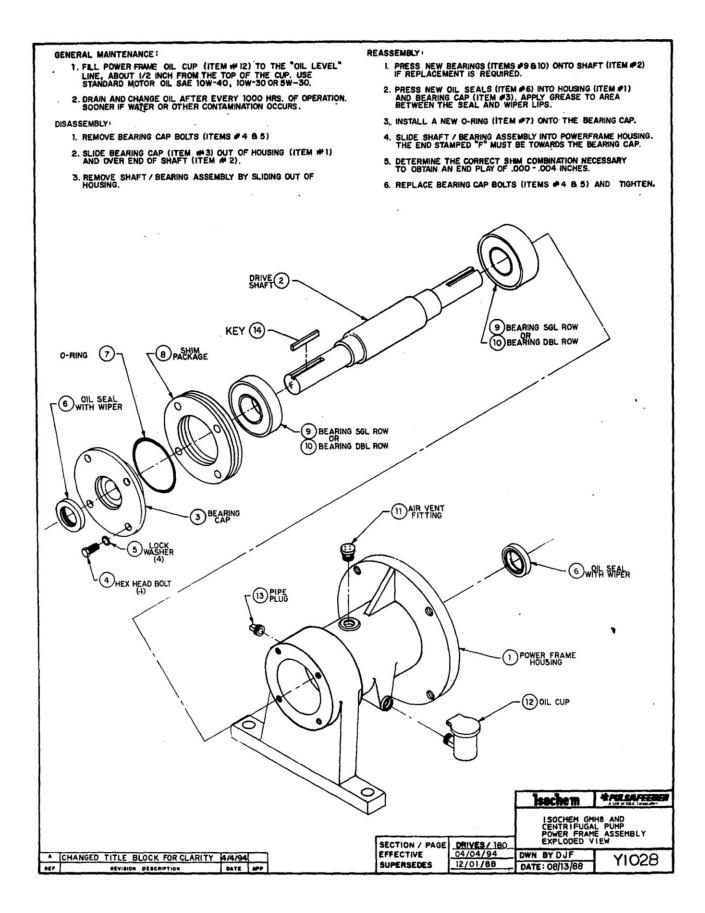
I SOCHEM	GMH8	AND	CENTR	RIFUGA	AL POWER	FRAME
ASSEMBL'	Y COMP	POSITI	E BIL	L OF	MATERIA	LS FOR
Y0400600	) - ( SUF	FIX I	FROM	BELOV	V)	

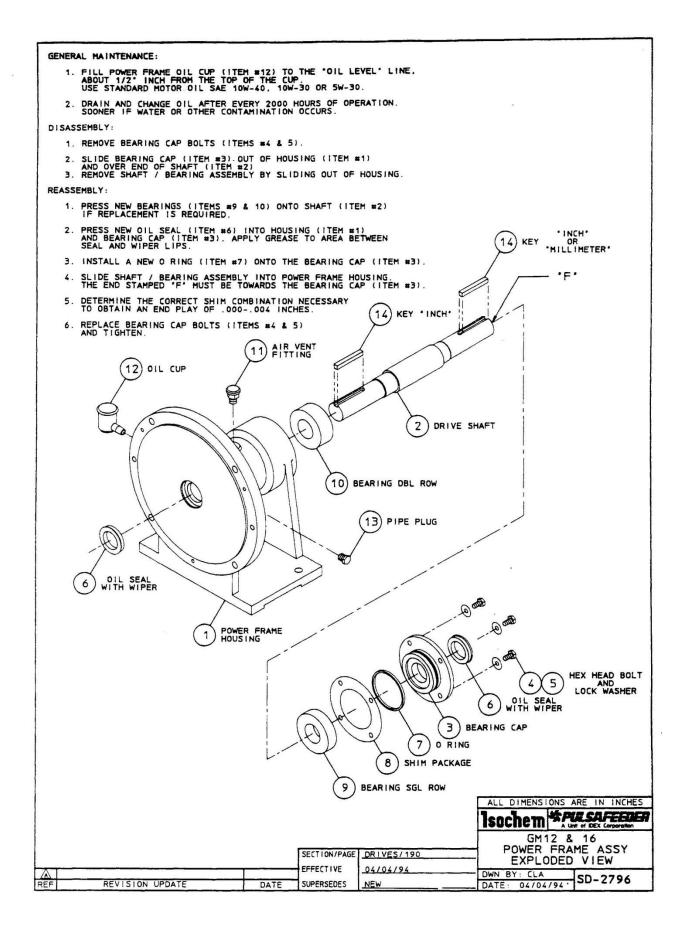
SECTION:	DRIVES
PAGE :	120
DATE REV.:	12/02/94
SUPERSEDES :	04/04/94

	DESCRIPTION	QTY	PART NUMBER	MATERIAL	ITEM
COMMON PARTS	PIPE PLUG	1	W772565-STL	STEEL	13
	OIL CUP	1	A53801	STEEL	12
	AIR VENT	1	27219	STEEL	11
	SHIM PACKAGE	<b>*</b> 1	Y1300700-PAK	PLASTIC	8
	0-RING	<b>*</b> 1	W209789-NTR	NITRILE	7
	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- RN	CAST IRON	1
.625 DI	A. OUTPUT SHAFT FOR UP TO 3 H.P.	INPU	Т		
SUFFIX	DRIVE SHAFT	1	Y0701600-000	STEEL	2
-000	BEARING, SINGLE ROW	* 2	Y0800800-000	STEEL	9
.875 DI	A. OUTPUT SHAFT FOR UP TO 5 H.P.	INPU	т		
SUFFIX	DRIVE SHAFT	1	Y0701800-000	STEEL	2
-001	BEARING, SINGLE ROW	* 2	Y0800800-000	STEEL	9
.875 DI	A. OUTPUT SHAFT FOR UP TO 10 H.P	. INP	UT		
SUFFIX -002	DRIVE SHAFT	1	Y0701500-000	STEEL	2
	BEARING, SINGLE ROW	* 1	Y0800800-000	STEEL	9
	BEARING, DOUBLE ROW	* 1	Y0800700-000	STEEL	10
.875 DI	A. OUTPUT SHAFT FOR UP TO 20 H.P	. INP	UT		1
SUFFIX	DRIVE SHAFT	1	Y0701700-000	STEEL	2
		1			

\* DENOTES RECOMMENDED SPARE PARTS

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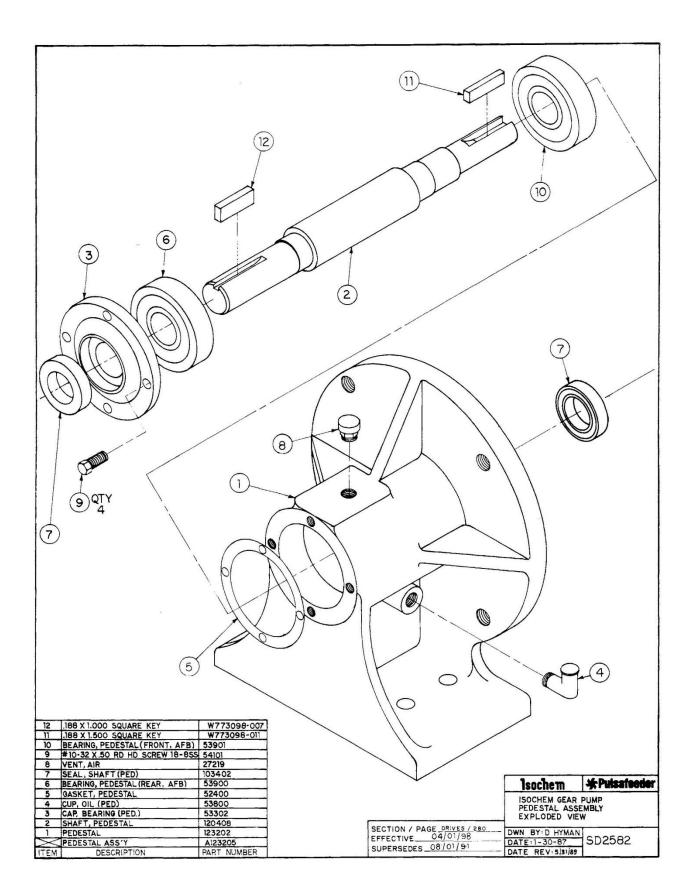


ISOCHEM GEAR POWER FRAME ASSEMBLY COMPOSITE BILL OF MATERIALS FOR 99648 AND 99649 (METRIC)	SECTION: PAGE: DATE REV.: SUPERSEDES:	DRIVES 191 12/02/94 04/04/94	
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DESCRIPTION		PART No.	MATERIAL	ITEM
HOUSING, POWER FRAME		99620	IRON	1
SHAFT, POWER FRAME Ø1.125 INPUT		99646	STL	2
SHAFT, POWER FRAME Ø28 MM INPUT	- 1	99647	STL	2
KEY, STANDARD		W773099-015	STL	14
KEY, METRIC		W773107-000	STL	14
CAP, BEARING		99645	STL	З
BOLT, BEARING CAP		W770402-STL	STL	4
LOCK WASHER, BOLT		W771117-STL	STL	5
+SEAL, LIP		99644	NTR	6
+0 RING		W209789-NTR	NTR	7
+SHIM PACKAGE		Y1300700-PAK	PLSTC	8
+BEARING, SINGLE		Y0800800-000	STL	9
+BEARING, DOUBLE		Y0800700-000	STL	10
AIR VENT		27219	STL	11
OIL CUP		A53801	STL	12
PIPE PLUG		W772565-STL	STL	13

+ DENOTES RECOMMENDED SPARE PART.

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## Bulletin No. IOM-ISO-4000-Rev B

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