WEAVER CONSTRUCTION MANAGEMENT, INC. 3679 S. Huron St., Suite 404 Englewood, CO 80110 Phone: (303) 789-4111 FAX: (303) 789-4310

SUBMITTAL TRANSMITAL

| | | August 8, 2011 WCM Submittal No: 11314-001 |
|--|--|---|
| PROJECT: | Harold Thompson Regiona Birdsall Rd. Fountain, CO 80817 Job No. 2908 | |
| ENGINEER: | GMS, Inc. 611 No. Weber St., #300 Colorado Springs, CO 8090 719-475-2935 Roger Sams | |
| OWNER: | Lower Fountain Metropolit Sewage Disposal District 901 S. Santa Fe Ave. Fountain, CO 80817 719-382-5303 James Heck | |
| CONTRACTOR: | Schloss Engineered Equip 10555 E. Dartmouth Ave., S Aurora, CO 80014 303-695-4500 Linda Wood | |
| SUBJECT: Recessed | Impeller Grit Pumps (GP-1 8 | & GP-2) |
| SPEC SECTION: 11 | 314 - Recessed Impeller F | Pumps |
| PREVIOUS SUBMISS | SION DATES: | |
| DEVIATIONS FROM | SPEC:YES X_ N | 0 |
| respect to the means, met | hods, techniques, & safety pre- | ewed by Weaver General Construction and approved with cautions & programs incidental thereto. Weaver General ith contracted documents and comprises on deviations |
| Contractor's Stamp | : | Engineer's Stamp: |
| Date: 8/8/11 Reviewed by: H.C. (X) Reviewed With () Reviewed With | hout Comments | |
| ENGINEER'S COMMENTS: | | |

SUBMITTAL

HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY FOUNTAIN, COLORADO

SPECIFICATION SECTION 11314 - RECESSED IMPELLER PUMPS

SCHLOSS ENGINEERED EQUIPMENT, INC. PROJECT NO. 1757-11

SUBMITTAL

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COMMENTS

SUBMITTAL COMMENTS

HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY FOUNTAIN, COLORADO

ENGINEER: GMS, INC.
CONTRACTOR: WEAVER GENERAL CONSTRUCTION

SPECIFICATION SECTION 11314 - RECESSED IMPELLER PUMPS

SCHLOSS ENGINEERED EQUIPMENT, INC. PROJECT NO. 1757-11

Schloss Engineered Equipment, Inc. (SEE) is submitting on two (2) Essco recessed impeller pumps for the above referenced project. Included with this submittal are Essco submittal data and catalog information. The following comments are furnished in direct response to the above referenced specification section, however, comments are provided only for clarification or exception.

- 1.2 Please refer to the attached Essco submittal package. As directed by Mr. Roger Sams with GMS, the controls will be included in the main panel submitted with the vortex grit chamber submittal. Please verify the pumps design for 220 GPM at 28 ft. TDH.
- 2.4 Anchor bolts by contractor.
- 2.5 The following spare parts will be provided:
 - A. one Nihard wear plate
 - B. one set pump bearings
 - C. one silicon carbide seal
 - D. one set V belts
- 3.2 Installation, lubricants and finish paint by others.
- 3.3 & 3.4 SEE will provide a factory trained technician for start up, testing and training. Please note that SEE can't legally supervise the installation/erection work of others.

Contractor to verify voltage and all dimensions.

8/4/11

SECTION II

TECHNICAL DATA



SUBMITTAL No.1

Recessed Impeller Grit Pumps GP-1, GP-2 Section11314

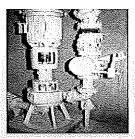
Project
Headworks Building

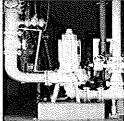
Owner
City of Fountain Colo.

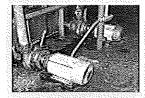
Equipment Manufacturer

ESSCO Pumps and Controls
Job Number 11143

Reliable Long-Term **Solutions For Your Toughest Pump**







- Horizontal with Power
- **Horizontal Close Coupled**
- Vertical with Power Frame
- **Vertical Close Coupled**
- Vertical Dry Pit with Submersible Motor
- Submersible
- Column

SIZES

- 1" Thru 6" Vortex
- 3" Thru 12" Non-Clog

Municipal

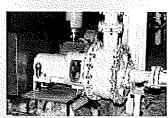
- Raw Sewage
- Grit Handling
- Sludge Recirculation
- Digester Cleaning
- Thickened Sludge
- Storm Water
- Sump Pump (Pipe Gallery)
- Head Works

Industrial

- Coal Wash
- **Coal Pile Runoff**
- **Coal Slurry**
- Citrus Waste Handling
- Sugar Waste Handling
- Leather Tannery Waste
- Rendering
- Plant Wash Down
- Clarifier Under Flow
- Stone Washed Jeans
- Industrial Laundries
- **Automobile Shredding**

MATERIALS

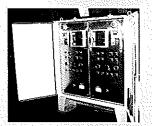
- **Cast Iron**
- Stainless Steel
- Ni-Hard
- High Chrome Iron (HCI)
- 20+ Other Alloys





U.L. LISTED CUSTOM CONTROL PANELS

- Air Bubbler- Pressure Switch
- Air Bubbler--Transducer
- Float Switch
- Variable Speed Drive Systems
- Sonic Level Controllers
- **Motor Control Centers**
- **PLC Controls**
- **Calibration Test Benches**
- **Custom NEMA Enclosures in Epoxy Coated Steel and** Stainless Steel



ESSCO Pumps & Controls

4935 Telegraph Rd. Los Angeles, Ca 90022

(323) 261-2181 Fax (323) 261-1523 Website: www.esscopumps.com Email: sales@esscopumps.com

Member of the Hydraulic Institute

Form G-01a



ENGINEERS SALES-SERVICE COMPANY, INC.

4935 Telegraph Rd. ! Los Angeles, CA 90022 Phone (323)261-2181 FAX (323)261-1523

- Submittal -

Quote No: JR11052S July 15, 2011

Attention: Chuck Schloss

Firm: Schloss Engineered Equipment

Ref: Fountain, Colorado

Grit Pumps:GP-1& GP-2

ESSCO Pumps & Controls is pleased to quote the following pumping equipment:

CONDITION POINT: 220 GPM at 28 FT. TDH

Two - ESSCO model 4x16 HDPL large power frame heavy duty horizontal pump with a recessed vortex style Cupped impeller, dynamically balanced in two planes, capable of passing 4" diameter and long length solids. Each unit shall be constructed of heavy duty engineered Ni-Hard 650 with Ni-Hard 650 impeller, Ni-Hard 650 volute, Ni-Hard 650 suction cover, Ni-Hard 650 wear plate, Cast Iron seal box with a single inside Silicon Carbide mechanical seal and Buna-N seal elastomers, with oil lubricated bearings w/ oiler sight glass, heavy duty Steel pump shaft, and 416 Stainless Steel shaft sleeve. The pump shall be fitted with a .5" vent.

Each pump shall include the following:

- A coating of standard factory paint.
- Side x Side belt drive system with 316 SS belt guard.
- Reliance brand TEFC, Explosion Proof Energy Efficient motor rated for 7.5 HP, 1150 RPM, 460Volts/3Phase/60hz., with Class F insulation
- Certified Performance test
- One Set Spare parts:
 - 1-Nihard wear plate
 - 1-set-pump bearings
 - 1-Silicon carbide seal
 - 1-set-V-belts

As always, if I can be of further service please feel free to contact me.

Respectfully, Jon Rogers ESSCO Pumps & Controls

Horizontal Recessed Impeller Pump Data Sheet

PUMP

Job Number: JR11052S

Attention: Chuck Schloss

Firm Name: Schloss Engineered Equipment

Reference: Fountain, Colorado

Grit Pumps: GP-1& GP-2

GPM: 220

TDH: 28 ft.

Pump Quantity: Two

Model: 4x16

Power Frame: Large Impeller Type: Cupped

Dynamic. Bal. Impeller: Two plane

Solid Size: 4"

Pump Material: Ni-Hard 650

Impeller Material: Ni-Hard 650

Volute Material: Ni-Hard 650

Suction Cover: Ni-Hard 650

Wear Plate: Ni-Hard 650 Box Type: Seal box

Bearings: oil

Pump Shaft: Steel

Shaft Sleeve: 416 Stainless Steel

Special Coating: Standard Factory Paint

Motor Manufacturer: Reliance

Horse Power: 7.5

RPM: 1150

Volts: 460

Phase: 3

Hertz: 60

Motor Type: Explosion Proof Energy Efficient

Insulation: Class F

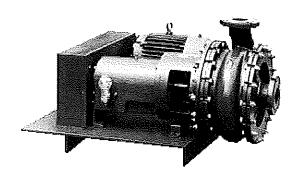


Pump Data

Equipment Manufacturer
ESSCO Pumps and Controls
Job Number 11143

ESSCO

HORIZONTAL RECESSED IMPELLER PUMPS CUP STYLE IMPELLER For Waste Water Treatment Plants



Pictured above is an ESSCO 3x14 HDPL belt driven side by side heavy duty horizontal pump with large power frame and recessed cup style impeller.

ESSCO has been designing and manufacturing recessed style cupped impeller horizontal pumps since 1985. ESSCO includes all the features dictated by the needs of our customers in the area of wear and abrasion resistance and has improved on many of these features. ESSCO surveyed their valued customers prior to designing this series of pumps to eliminate the problems they experienced using other manufacturer's products. Customer suggestions were instrumental in the design of this product. After final assembly of the first units customers were invited to the factory to inspect the units. Their additional suggestions were incorporated into the final design the pump. which proved to be a remarkable contribution to a well designed product. ESSCO has always had a policy of listening to our customers and implementing product changes when it makes sense to do so. ESSCO's recessed cup style impeller horizontal pump is designed to handle grit, sludge, rags and long stringy material without plugging. These types of solids are commonly found in waste water treatment plants and other sever duty installations. ESSCO offers a prorated 5 YEAR WAR-RANTY as an option. Consult factory for details.

VOLUTE: Each ESSCO back pullout style volute is designed for ease of assembly and maximum life and is manufactured from extremely abrasion resistant materials. Extra material is provided in high wear areas as well as special designs to handle heavy grit slurries and sludges. Due to the Brinnell hardness of the volute all bolting flanges are slotted to allow for ease of assembly. ESSCO has a standard centerline discharge volute which allows it to be self venting and automatically releases air trapped in the pump volute (also known as an air bound pump). Air bound pumps are a common complaint of users who have tangential discharge volutes. The centerline discharge also eliminates the need for a right hand and left hand pump case. An optional conventional tangential design is available upon request.

SUCTION COVER: A contoured suction cover is provided to insure passage of suction sized solids from grit, rags or sludge laden liquids. The suction cover thickness ranges from .75" at the volute bolt flange to a massive 1.5" thickness at the point of highest wear. The generous amount of material provided will

ESSCO Pumps & Controls

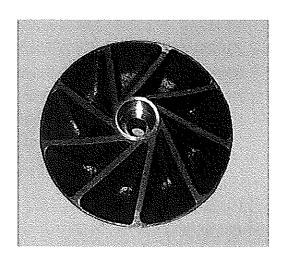
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Los Angeles, Ca 90022
(323) 261-2181
Fax (323) 261-1523
www.esscopumps.com
Email sales@esscopumps.com

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Form: ESSCOHDPCup

ESSCO

HORIZONTAL RECESSED IMPELLER PUMPS CUP STYLE IMPELLER For Waste Water Treatment Plants



The impeller pictured above is from a model 3x14. ESSCO uses a straight machined bore and keyway to allow for the best possible shaft attachment.

provide the owner the maximum possible life of the suction cover which in turn reduces the overall cost of ownership for the life of the unit. The suction flange is slotted for easy connection to suction piping and has a raised face to allow for proper gasket sealing. Suction flange match ANSI 150# dimensions. All gasket surfaces are ground to a smooth finish which allows for the best possible gasket seal. ESSCO eliminated an O-Ring glued to an "as cast" irregular surface groove. This eliminated leakage associated with the O-Ring method of sealing.

IMPELLER: The ESSCO cup style impeller was given thorough design consideration. Utilizing modern methods of manufacturing, ESSCO was able to produce impellers with a straight, accurate

bore and keyway. Specification requirements using a tapered shaft with a flat section to act as a keyway, coupled to a soft lead babbitt material in the bore of the impeller, was improved upon with the use of a straight bore design. By using up to date manufacturing practices and methods a major complaint of maintenance personnel was alleviated. Another added design benefit was recessing the impeller bolt area to protect it from grit and debris. The ESSCO impeller bolt is protected from wear. ESSCO included extra thick tapered impeller vanes, deep vane pockets, extra sacrificial material in high wear areas. heavy duty rear impeller shroud and a contoured impeller face which matches the shape of the suction cove. All of these features insure the maximum impeller life.

IMPELLER BOLT PROTECTOR: As an added feature, ESSCO includes an impeller bolt protector on each pump. Even though the impeller bolt is located in a recessed area of the impeller there was a potential for grit to cause wear on the bolt head making it very difficult for removal of the bolt. ESSCO manufactures the bolt protector from the same material as the impeller to completely cover the head of the bolt. This protects the head of the bolt from the pumped material thereby insuring no damage to the impeller bolt.

WEAR PLATE: Located behind the impeller and in front of the stuffing box is a heavy duty wear plate. The wear plate is designed as a single monolithic piece to provide maximum protection to the stuffing box or optional mechanical seal housing. ESSCO does not use

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Form: ESSCOHDPCup

ESSCO

HORIZONTAL RECESSED IMPELLER PUMPS CUP STYLE IMPELLER For Waste Water Treatment Plants

cast in soft metal inserts on the wear plate. Maintenance personnel complained about constant leaking around the inserts cast into other manufacturers wear plates. The problem was easily solved by simply not using inserts. The ESSCO wear plate is contoured to match the impeller back shroud which reduces the possibility of grit and sludge getting between the wear plate and the impeller shroud causing excess wear.

STUFFING BOX: The stuffing box is a two piece design, consisting of "stuffing box ring" and a "stuffing box cartridge". The stuffing box cartridge is bolted to the stuffing box ring which allows for the two pieces to be manufactured from different materials. ESSCO has supplied many customers with a cast iron stuffing box ring and an optional stainless or bronze stuffing box cartridge. This eliminates many problems associated with corrosion as experienced with standard cast iron stuffing boxes. The standard packing gland is bronze, but is available in an optional stainless or alloy material.

POWER FRAME: ESSCO provides a heavy duty, cast iron, cartridge type power frame. The power frame contains heavy duty bearings which are available for grease or oil lubrication. ESSCO utilizes state of the art bearing designs which are supplied by major bearing manufacturers. A unique feature of ESSCO's pump design is the option of upgrading to a one size larger power frame. A pump with a small power frame can be upgraded to a medium sized power frame and a unit with a medium power frame as standard can be upgraded to a large power frame. This option is popular with owners who wish to keep a minimum of spare parts while spanning multiple pump sizes.

SHAFT AND BEARINGS: ESSCO has designed the shaft and bearing combination around a minimum B10 (L10) life of 100,000 hours. ESSCO furnishes heavy duty pump shafts from the best quality steel standard which have a tensile strength of 150,000 PSI and a yield strength of 130,000 PSI. Each shaft and bearing set provides the maximum life possible. 316 SS shafts are available as an option.

SHAFT SLEEVE: ESSCO offers a wide variety of shaft sleeve materials. Standard shaft sleeves are hardened 400 series stainless steel. Each shaft sleeve has an internal O-ring to seal between the shaft and the sleeve which prevents the pumped liquid from damaging the shaft. The standard shaft sleeve is key driven to insure rotational integrity. Typical options for shaft sleeves are 316 SS, Stellite, Hastaloy along with many others.

PACKING AND MECHANICAL SEALS:

ESSCO furnishes graphite impregnated nonasbestos braided packing as a standard. Each packed stuffing box contains (5) five rings of packing and a Teflon lantern ring. The standard packing box can accommodate double mechanical seals as well as cartridge style mechanical seals.

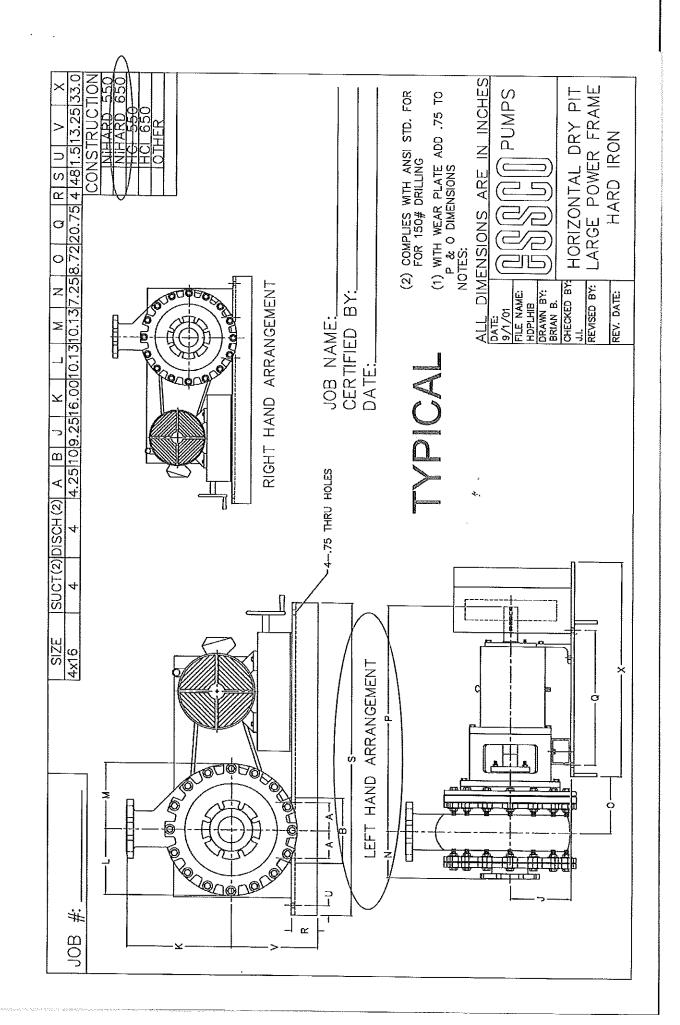
ESSCO Pumps & Controls

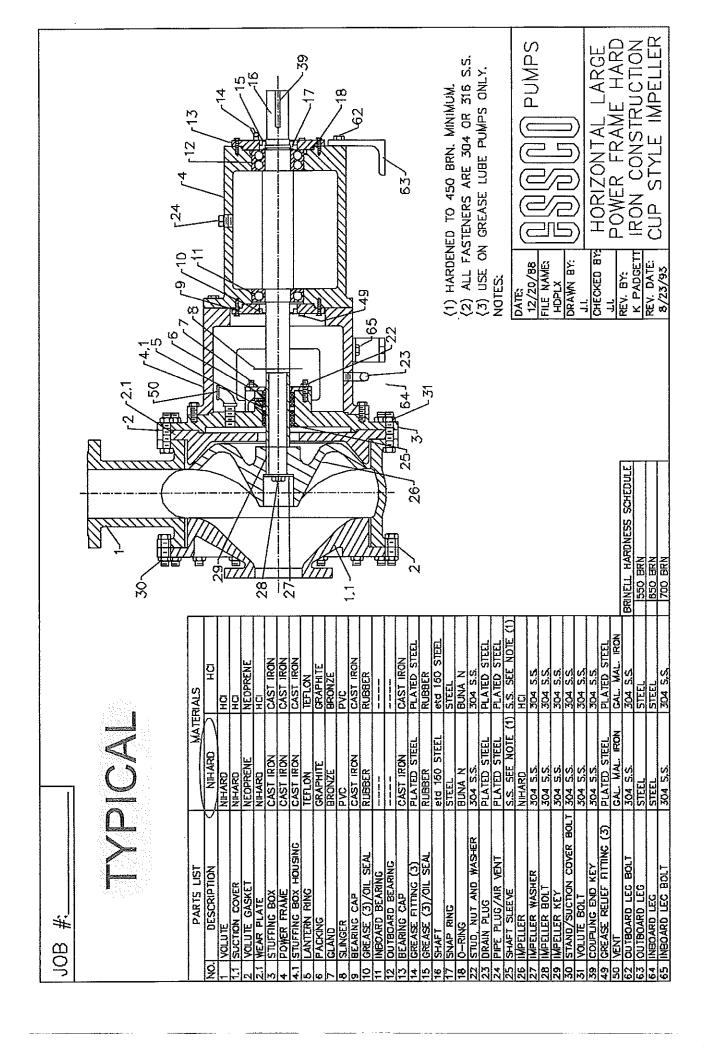
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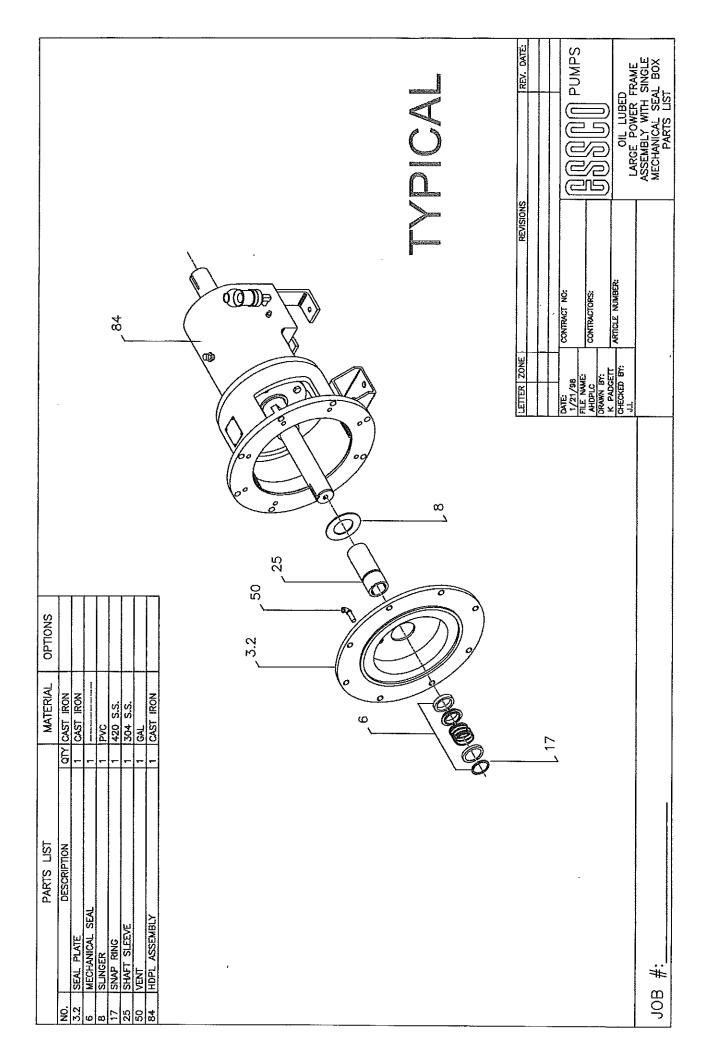
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Form: ESSCOHDPCup

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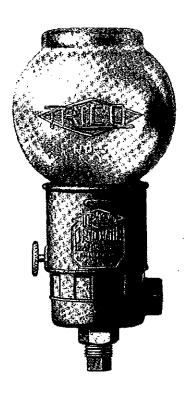






GLASS BOTTLE OPTO-MATIC CONSTANT LEVEL OILER

TRICO glass Opto-Matic constant level oilers have been used in every major industry and have proven their value for over forty years. Some of the reasons for their popularity are the exclusive engineering features not found in the other competitive types. When choosing a constant level oiler, the following features should be considered:



ONE PIECE GLASS RESERVOIR

The Opto-Matic oiler permits visual inspection of the oil at any time for proper level and condition of the oil. The one piece glass reservoir eliminates the danger of air entering the lubricator bottle through leaky gaskets on the reservoir bottle. This exclusive TRICO feature prevents leakage of oil from the reservoir, flooding the bearing and rendering the lubricator useless.

AIR VENT SLOTS

These air vents permit air to enter the lubricator for proper functioning at all times. On TRICO Opto-Matic oilers, there are eight air vents spaced equally 360° around the lubricator. The chances of all of these air vents becoming clogged are almost impossible when compared to a single hole which can become clogged very easily and render the lubricator useless. The air intake of the lubricator is designed in such a way that air travels from the bottom of the lubricator upward around the body and over the top. The upper reservoir acts as a baffle to protect the incoming air from atmospheric contaminates in the immediate area.

OIL LEVEL ADJUSTER MECHANISM

This unique device instantly and accurately raises or lowers the oil level in the bearing chamber or gear box. This is simply accomplished by moving the threaded arms up or down the leveling stem until the desired level is maintained. The leveling arms are then locked tight and maintain that setting. This is far simpler than taking a hack saw and cutting off a spout that eventually may end up too short or too long. It also allows the machine builder, who produces several different machines with different oil levels, to stock only one unit instead of several units for different oil levels. On special request, TRICO can suggest ways of making these lubricators tamper proof.

LARGE SURGE CHAMBER

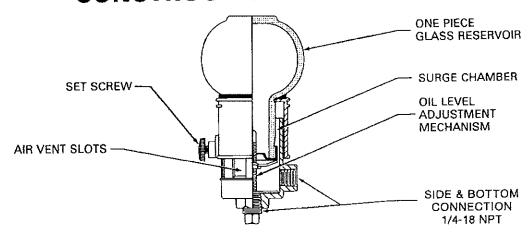
The surge capacity of the TRICO constant level oiler is very important inasmuch as oil adheres to mechanisms in motion as well as to gear box wall, bearing walls, etc. For large bearings, great quantities of oil may be needed to establish an operating oil level. When some machines shut down, there is a new level of oil established above the running level. As this surge of oil goes back to the lubricator, it must have adequate room in the lower reservoir to temporarily store the lubricant. Should this room not be adequate, it would result in oil overflowing the lower casting with excess oil ending up on the floor, causing both a messy condition as well as a safety hazard. Competitive models do not have this outstanding TRICO feature.

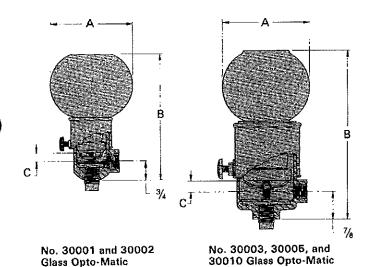
SIDE AND BOTTOM CONNECTIONS

TRICO glass Opto-Matic oilers come with both side and bottom outlets at no additional cost. This allows you to choose the method that best suits your particular installation. And you only need to select one type of lubricator instead of several types.



CONSTRUCTION FEATURES





Material Specifications

Max, Operating Temp. ... 250°F Continuous Reservoir One Piece Glass Bottle

(No Gaskets)

Materials Steel

Castings Zinc Die Cast Finish Bright Zinc Plated

| | PIPE | | D | IMENSIO | NS | | |
|---|----------------------------|---|-------------------------------------|--|---|---------------------------|---|
| CAP. | THREAD CONN. | A | B MIN. | B MAX. | C MIN. | C MAX. | CAT. NO. |
| 1 1/4 OZ. 21/4 OZ. 4 OZ. 8 OZ. 16 OZ. | V4 V4 V4 V4 V4 | 115/16 21/2 211/16 33/16 41/8 | 3¾ 31¾ 5 51% 61¾ 61¾ | 31 1/16 4 1/4 5 3/4 61 1/16 7 3/16 | 11/32 11/32 11/32 9/32 9/32 9/32 | %:6 %:6 1 1 1 | 30001 30002 30003 30005 30010 |

All dimensions shown are in inches.

ACCESSORIES

BREATHER TUBES

| ITEM | DE | SCRIPTION | CAT. NO. |
|----------|----------|-----------------|----------|
| € | | ⅓" NPT THREAD | 30014 |
| 9 | TYPE "C" | WICK AIR FILTER | 30014 |
| רז | TYPE "E" | 1/2" NPT THREAD | 30015 |
| | ITPE E | DUST CAP | 30013 |

Accessory Item: Breather tubes are accessories used in conjunction with the Glass Optomatic Oilers to help eliminate vacuums created by abnormally tight bearings or pressures created by high speed bearings. The breather tube helps maintain a constant atmospheric pressure in the bearing housing.

WIRE GUARDS

| ITEM | DESCRIPTION | CAT. NO. |
|------|---------------------------|----------|
| | 1 ¼ OZ. OILER WIRE GUARD | 30011 |
| | 21/2 OZ. OILER WIRE GUARD | 30012 |
| 412 | 4 OZ. OILER WIRE GUARD | 30013 |
| | 8 OZ. OILER WIRE GUARD | 30016 |
| | 16 OZ. OILER WIRE GUARD | 30020 |

HOW TO ORDER GLASS OPTO-MATIC OILERS



Motor Data

Equipment Manufacturer
ESSCO Pumps and Controls
Job Number 11143



Product Information Packet

7.5//5HP,(1180)//980RPM,3PH(60)//50HZ,254T

| PemDelen | | | | | | | |
|----------------|---------|---------------------|-------|--|------------|--|--------------|
| Revision: | ¥ | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Prod. Type: | 0950M | Elec. Spec: | 09WGZ590 | CD Diagram: | |
| Enclosure: | XPFC | Mfg Plant | | Mech. Spec: | 09F369 | Layout: | |
| Frame: | 254T | Mounting: | F1 | Poles: | 06 | Created Date: | 06-15-2010 |
| Base: | RG | Rotation: | R | Insulation: | L1 | Eff. Date: | 07-13-2010 |
| Leads: | 9#12 | Literature: | | Elec. Diagram: | | Replaced By: | |
| | | | | | | | |
| NO. | | | H | TEMP CODE | T3C | | |
| SPEC. | 09F3 | 09F369Z590G1 | | DE BRG | 6309 | American de la companya de la compa | |
| CAT.NO. | EM7 | EM7048T-I | 0 | ODE BRG | 6208 | | |
| HP | 3/(5.7) | 2 | 9 | GREASE | POLYREX EM | | |
| VOLTS | 230/ | 230/460//190/380 | N | MOTOR WEIGHT | 355 | | |
| AMPS | 21.4 | 21.4/10.7//18.8/9.4 | Z | NEMA-NOM-EFF | 91 | | |
| RPM | (1180 | 1180//980 | | FL PF | 70 | | |
| CYCLE | 09//09) | 90 | 4 | ЬН | ю | 김 | F FRAME 254T |
| SER.F. | 1.15 | | ٥ | DES | В | CODE J | J CC 010A |
| SER. | *** | | | | | | |
| RATING | 40C | 40C AMB-CONT | | | | | , |
| USABLE AT 208V | 22.6 | | | , the special management of the special specia | | | |

国AL.DOR・RELIANCE Product Information Packet: EM7048T-4 - 7.5//5HP,1180//980RPM,3PH,60//50HZ,254T

| Raits Wil | | |
|--------------|--|----------|
| Part Number | Description | Quantity |
| SA198391 | SA 09F369Z590G1 | 1.000 EA |
| RA185759 | RA 09F369Z590G1 | 1.000 EA |
| MJ5000A01 | SEALANT, CHICO A COMPOUND | 0.050 LB |
| 09CB1003A01 | CONDUIT BOX MACH. GROUP C MTRS | 1.000 EA |
| 10XN3118K24 | 5/16-18 X 1.50" HEX HD, GRADE 5 | 4.000 EA |
| HW1001A31 | LOCKWASHER 5/16, ZINC PLT.591 OD, .3191 | 4.000 EA |
| WD1000B25 | BURNDY TERMINAL L125HP | 1.000 EA |
| 10XN3118K12 | 5/16-18 X .75 GRADE 5, ZINC PLATED | 1.000 EA |
| HW1001A31 | LOCKWASHER 5/16, ZINC PLT.591 OD, .3191 | 1.000 EA |
| 09EP1700A33P | FR ENDPLATE, MACH, XPFC W/DRN HW4505A02 | 1.000 EA |
| HW3023E06 | .125 X .625 SPIRAL SPRING PIN | 1.000 EA |
| 10XN3816K28 | 3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5 | 4.000 EA |
| HW1001A38 | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 EA |
| HW5100A08 | W3118-035 WVY WSHR (WB) | 1.000 EA |
| 10XN2520K36 | 1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P | 4.000 EA |
| HW1001A25 | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 EA |
| 09EP1707A16P | PU E.P., MACH. W/DRAIN HW4505A02 W/PRIME | 1.000 EA |
| HW3023E06 | .125 X .625 SPIRAL SPRING PIN | 1.000 EA |
| 10XN3816K28 | 3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5 | 4.000 EA |
| HW1001A38 | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 EA |
| 09FH1004A03 | FAN COVER, MACH | 1.000 EA |
| 10XN2520K12 | 1/4-20 X.75 GRD 5 | 3.000 EA |
| HW1001A25 | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 3.000 EA |
| HA2066A01 | SLINGER, ALUM (AUTO) | 1.000 EA |
| | | |

BALDOR・RELIANGE Product Information Packet: EM7048T-1 - 7.5//5HP,1180//980RPM,3PH,60//50HZ,254T

| Pairs List (continued) | | |
|------------------------|---|----------|
| Part Number | Description | Quantity |
| 80XN1032A07 | SET SCREW, HEX XOCK, ZN | 1,000 EA |
| 09CB1502A01 | CONDUIT BOX LID MACH. GROUP C MTRS | 1.000 EA |
| 84XN5013J24 | 1/2-13 X 1-1/2 HEX SOCKET HD CAP SCREW | 6.000 EA |
| HW1001A50 | LOCKWASHER 1/2, ZINC PLT, 879 OD, .509 I | 6.000 EA |
| HW2501G25 | KEY, 3/8 SQ X 2.875 | 1.000 EA |
| LB1115 | LABEL, LIFTING DEVICE | 1.000 EA |
| HW4500A20 | 1/8NPT SL PIPE PLUG | 2.000 EA |
| HW4505A02 | BREATHER/DRAIN-EXP PROOF. 250-18 PTF AIS | 1.000 EA |
| MJ1000A75 | GREASE, POLYREX EM EXXON | 0.080 LB |
| HW4500A20 | 1/8NPT SL PIPE PLUG | 2.000 EA |
| HW4505A02 | BREATHER/DRAIN-EXP PROOF-, 250-18 PTF AIS | 1.000 EA |
| 09FN3001A01SP | EXTERNAL FAN, PLASTIC | 1.000 EA |
| HW2500A25 | WOODRUFF KEY USA #1008 #BLOW CARBON STEE | 1.000 EA |
| 51XB1214A20 | 12-14X1.25 HXWSSLD SERTYB | 1.000 EA |
| MG1025G05 | PAINT 789.201 (WILCO) DARK GRAY METALLIC | 0.050 GA |
| 85XU0407A04 | #4-7 X 1/4 DRIVE PIN | 6.000 EA |
| LB1081 | LABEL CSA XPROOF | 1.000 EA |
| LB5040 | INSTRUCTION TAG, AC & DC | 1.000 EA |
| LB1119 | WARNING LABEL | 1.000 EA |
| LB1125C02 | SUPER-E (STOCK CTN LABEL SUPER-E WITH FL | 4.000 EA |
| LB1357 | ENERGY GUIDE LABEL (BOX LABEL) | 1.000 SH |
| LC0145B01 | CONNECTION LABEL | 1.000 EA |
| NP0977XP | UL/CSA, CLI GP-C&D, CC | 1.000 EA |
| 40PA1005 | PACKAGING GROUP, 09 STD | 1,000 EA |

BALDOR · RELIANCE Product Information Packet: EM7048T-1 - 7.5//5HP,1180//980RPM,3PH,60//50HZ,254T

150

200

75 PERCENT OF RATED OUTPUT (7.5 HP)

20

3.0 2.5

1,130

30 25 20 15 9

1,125

1,120 1,115 1.0 0.5

1,110 1,105 1,100E

4 Guest 7/15/2011 ACPERF, record # 31475

Product Information Packet: EM7048T-1 - 7.5//5HP,1180//980RPM,3PH,60//50HZ,254T **BALDOR·RELIANCE**

WINDING # 09WGZ590 Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values Ė AMP. 7.5 HP 3 PH 60 HZ 1184 RPM 460 V 0950M TORQUES(LB-F7): PO=94.2 PU=36.4 LR=53.4 LRA=67 TORQUE 歪 BALDOR ELECTRIC COMPANY 0; 7.5 Typical performance - not guaranteed values. 1,165 1,140 1,160 1,155 1,150 1,145 1,135 1,195 1,190 1,185 1,175 1,170 55 9 20

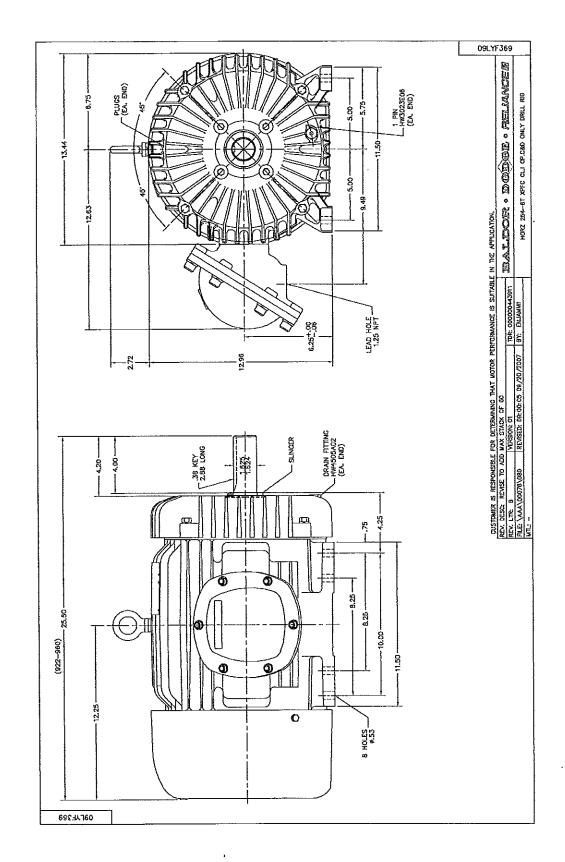
1001

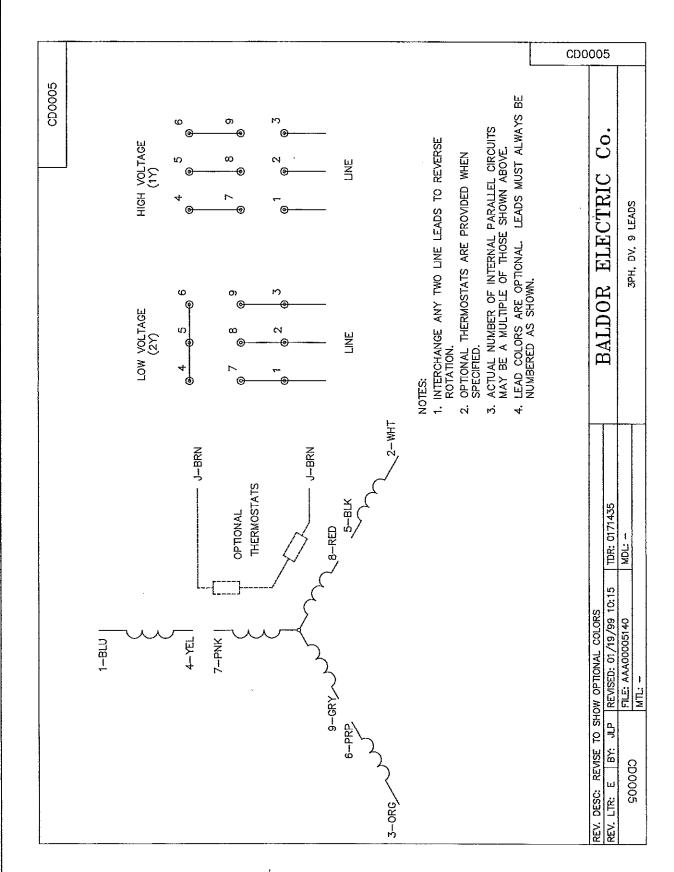
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96

95

75 70 65 9 55 50 45 5





Product Information Packet: EM7048T-I - 7.5//5HP, 1180//980RPM, 3PH, 60//50HZ, 254T

BALDOR·RELIANCE