

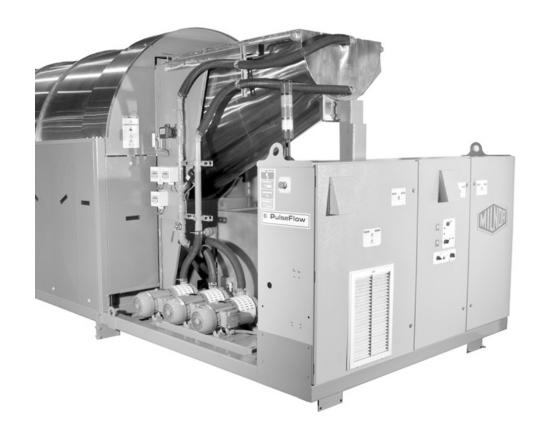
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Installation and Service 76028 & 76039 G3 PulseFlow® Continuous Batch Washers





Read the separate safety manual before installing, operating, or servicing

MPI39G3PAE/25183A

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PELLERIN MILNOR CORPORATION LIMITED STANDARD WARRANTY

We warrant to the original purchaser that MILNOR machines including electronic hardware/software (hereafter referred to as "equipment"), will be free from defects in material and workmanship for a period of one year from the date of shipment (unless the time period is specifically extended for certain parts pursuant to a specific MILNOR published extended warranty) from our factory with no operating hour limitation. This warranty is contingent upon the equipment being installed, operated and serviced as specified in the operating manual supplied with the equipment, and operated under normal conditions by competent operators.

Providing we receive written notification of a warranted defect within 30 days of its discovery, we will—at our option—repair or replace the defective part or parts, EX Factory (labor and freight specifically NOT included). We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same. We will not be responsible, or in any way liable, for unauthorized repairs or service to our equipment, and this warranty shall be void if the equipment is tampered with, modified, or abused, used for purposes not intended in the design and construction of the machine, or is altered in any way without MILNOR's written consent.

Parts damaged by exposure to weather, to aggressive water, or to chemical attack are not covered by this warranty. For parts which require routine replacement due to normal wear—such as gaskets, contact points, brake and clutch linings, belts, hoses, and similar parts—the warranty time period is 90 days.

We reserve the right to make changes in the design and/or construction of our equipment (including purchased components) without obligation to change any equipment previously supplied.

ANY SALE OR FURNISHING OF ANY EQUIPMENT BY MILNOR IS MADE ONLY UPON THE EXPRESS UNDERSTANDING THAT MILNOR MAKES NO EXPRESSED OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE OR ANY OTHER WARRANTY IMPLIED BY LAW INCLUDING BUT NOT LIMITED TO REDHIBITION. MILNOR WILL NOT BE RESPONSIBLE FOR ANY COSTS OR DAMAGES ACTUALLY INCURRED OR REQUIRED AS A RESULT OF: THE FAILURE OF ANY OTHER PERSON OR ENTITY TO PERFORM ITS RESPONSIBILITIES, FIRE OR OTHER HAZARD, ACCIDENT, IMPROPER STORAGE, MIS-USE, NEGLECT, POWER OR ENVIRONMENTAL CONTROL MALFUNCTIONS, DAMAGE FROM LIQUIDS, OR ANY OTHER CAUSE BEYOND THE NORMAL RANGE OF USE. REGARDLESS OF HOW CAUSED, IN NO EVENT SHALL MILNOR BE LIABLE FOR SPECIAL, INDIRECT, PUNITIVE, LIQUIDATED, OR CONSEQUENTIAL COSTS OR DAMAGES, OR ANY COSTS OR DAMAGES WHATSOEVER WHICH EXCEED THE PRICE PAID TO MILNOR FOR THE EQUIPMENT IT SELLS OR FURNISHES.

THE PROVISIONS ON THIS PAGE REPRESENT THE ONLY WARRANTY FROM MILNOR AND NO OTHER WARRANTY OR CONDITIONS, STATUTORY OR OTHERWISE, SHALL BE IMPLIED.

WE NEITHER ASSUME, NOR AUTHORIZE ANY EMPLOYEE OR OTHER PERSON TO ASSUME FOR US, ANY OTHER RESPONSIBILITY AND/OR LIABILITY IN CONNECTION WITH THE SALE OR FURNISHING OF OUR EQUIPMENT TO ANY BUYER.

BIUUUD19 (Published) Book specs- Dates: 20081231 / 20081231 Lang: ENG01 Applic: UUU

How to Get the Necessary Repair Components



This document uses Simplified Technical English. Learn more at http://www.asd-ste100.org.

You can get components to repair your machine from the approved supplier where you got this machine. Your supplier will usually have the necessary components in stock. You can also get components from the Milnor® factory.

Tell the supplier the machine model and serial number and this data for each necessary component:

- The component number from this manual
- The component name if known
- The necessary quantity
- The necessary transportation requirements
- If the component is an electrical component, give the schematic number if known.
- If the component is a motor or an electrical control, give the nameplate data from the used component.

To write to the Milnor factory:

Pellerin Milnor Corporation Post Office Box 400 Kenner, LA 70063-0400 UNITED STATES

Telephone: 504-467-2787

Fax: 504-469-9777

Email: parts@milnor.com

— End of BIUUUD19 —

Trademarks

BNUUUU02.R01 0000158093 F.2 E.2 3/3/21, 9:47 AM Released

These words are trademarks of Pellerin Milnor® Corporation and other entities:

Table 1. Trademarks

AutoSpot TM	GreenFlex TM	MilMetrix®	PulseFlow®
CBW®	GearTrace TM	MilTouch TM	RAM Command TM
Drynet TM	GreenTurn TM	MilTouch-EX TM	RecircONE®
E-P Express®	Hydro-cushion TM	$MilRAIL^{\mathbb{R}}$	RinSave®
E-P OneTouch®	Mentor®	Miltrac TM	$SmoothCoil^{TM}$
E-P Plus®	Mildata®	MilVision TM	Staph Guard®
Gear Guardian®	Milnor®	PBW^{TM}	

End of document: BNUUUU02

Safety and Maintenance

BIUUUS27 (Published) Book specs- Dates: 20051111 / 20051111 / 20060323 Lang: ENG01 Applic: PCU

Safety—Continuous Batch Washer

1. General Safety Requirements—Vital Information for Management Personnel [Document BIUUUS04]

Incorrect installation, neglected preventive maintenance, abuse, and/or improper repairs, or changes to the machine can cause unsafe operation and personal injuries, such as multiple fractures, amputations, or death. The owner or his selected representative (owner/user) is responsible for understanding and ensuring the proper operation and maintenance of the machine. The owner/user must familiarize himself with the contents of all machine instruction manuals. The owner/user should direct any questions about these instructions to a Milnor® dealer or the Milnor® Service department.

Most regulatory authorities (including OSHA in the USA and CE in Europe) hold the owner/user ultimately responsible for maintaining a safe working environment. Therefore, the owner/user must do or ensure the following:

- recognize all foreseeable safety hazards within his facility and take actions to protect his
 personnel, equipment, and facility;
- work equipment is suitable, properly adapted, can be used without risks to health or safety, and is adequately maintained;
- where specific hazards are likely to be involved, access to the equipment is restricted to those employees given the task of using it;
- only specifically designated workers carry out repairs, modifications, maintenance, or servicing;
- information, instruction, and training is provided;
- workers and/or their representatives are consulted.

Work equipment must comply with the requirements listed below. The owner/user must verify that installation and maintenance of equipment is performed in such a way as to support these requirements:

- control devices must be visible, identifiable, and marked; be located outside dangerous zones; and not give rise to a hazard due to unintentional operation;
- control systems must be safe and breakdown/damage must not result in danger;
- work equipment is to be stabilized;
- protection against rupture or disintegration of work equipment;
- guarding, to prevent access to danger zones or to stop movements of dangerous parts before the danger zones are reached. Guards to be robust; not give rise to any additional hazards; not be easily removed or rendered inoperative; situated at a sufficient distance from the danger zone; not restrict view of operating cycle; allow fitting, replacing, or maintenance by restricting access to relevant area and without removal of guard/protection device;
- suitable lighting for working and maintenance areas;
- maintenance to be possible when work equipment is shut down. If not possible, then protection measures to be carried out outside danger zones;
- work equipment must be appropriate for preventing the risk of fire or overheating; discharges of gas, dust, liquid, vapor, other substances; explosion of the equipment or substances in it.

- 1.1. Laundry Facility—Provide a supporting floor that is strong and rigid enough to support—with a reasonable safety factor and without undue or objectionable deflection—the weight of the fully loaded machine and the forces transmitted by it during operation. Provide sufficient clearance for machine movement. Provide any safety guards, fences, restraints, devices, and verbal and/or posted restrictions necessary to prevent personnel, machines, or other moving machinery from accessing the machine or its path. Provide adequate ventilation to carry away heat and vapors. Ensure service connections to installed machines meet local and national safety standards, especially regarding the electrical disconnect (see the National Electric Code). Prominently post safety information, including signs showing the source of electrical disconnect.
- **1.2. Personnel**—Inform personnel about hazard avoidance and the importance of care and common sense. Provide personnel with the safety and operating instructions that apply to them. Verify that personnel use proper safety and operating procedures. Verify that personnel understand and abide by the warnings on the machine and precautions in the instruction manuals.
- **1.3. Safety Devices**—Ensure that no one eliminates or disables any safety device on the machine or in the facility. Do not allow machine to be used with any missing guard, cover, panel or door. Service any failing or malfunctioning device before operating the machine.
- 1.4. Hazard Information—Important information on hazards is provided on the machine safety placards, in the Safety Guide, and throughout the other machine manuals. Placards must be kept clean so that the information is not obscured. They must be replaced immediately if lost or damaged. The Safety Guide and other machine manuals must be available at all times to the appropriate personnel. See the machine service manual for safety placard part numbers. Contact the Milnor Parts department for replacement placards or manuals.
- **1.5. Maintenance**—Ensure the machine is inspected and serviced in accordance with the norms of good practice and with the preventive maintenance schedule. Replace belts, pulleys, brake shoes/disks, clutch plates/tires, rollers, seals, alignment guides, etc. before they are severely worn. Immediately investigate any evidence of impending failure and make needed repairs (e.g., cylinder, shell, or frame cracks; drive components such as motors, gear boxes, bearings, etc., whining, grinding, smoking, or becoming abnormally hot; bending or cracking of cylinder, shell, frame, etc.; leaking seals, hoses, valves, etc.) Do not permit service or maintenance by unqualified personnel.

2. Safety Alert Messages—Internal Electrical and Mechanical Hazards [Document BIUUUS11]

The following are instructions about hazards inside the machine and in electrical enclosures.



WARNING 1: Electrocution and Electrical Burn Hazards—Contact with electric power can kill or seriously injure you. Electric power is present inside the cabinetry unless the main machine power disconnect is off.

- Do not unlock or open electric box doors.
- Do not remove guards, covers, or panels.
- Do not reach into the machine housing or frame.
- Keep yourself and others off of machine.
- Know the location of the main machine disconnect and use it in an emergency to remove all electric power from the machine.



WARNING 2: Entangle and Crush Hazards—Contact with moving components normally isolated by guards, covers, and panels, can entangle and crush your limbs. These components move automatically.

- Do not remove guards, covers, or panels.
- Do not reach into the machine housing or frame.
- Keep yourself and others off of machine.
- Know the location of all emergency stop switches, pull cords, and/or kick plates and use them in an emergency to stop machine motion. These may not stop certain devices such as pumps on some machines.



CAUTION 3: Burn Hazards—Contact with hot goods or machine components can burn you.

- Do not remove guards, covers, or panels.
- Do not reach into the machine housing or frame.

3. Safety Alert Messages—External Mechanical Hazards [Document BIUUUS12]

The following are instructions about hazards around the front, sides, rear or top of the machine.

4. Safety Alert Messages—Cylinder and Processing Hazards [Document BIUUUS13]

The following are instructions about hazards related to the cylinder and laundering process.



WARNING 4: Confined Space Hazards—Confinement in the cylinder can kill or injure you. Hazards include but are not limited to panic, burns, poisoning, suffocation, heat prostration, biological contamination, electrocution, and crushing.

• Do not attempt unauthorized servicing, repairs, or modification.



WARNING 5: Explosion and Fire Hazards—Flammable substances can explode or ignite in the cylinder, drain trough, or sewer. The machine is designed for washing with water, not any other solvent. Processing can cause solvent-containing goods to give off flammable vapors.

- Do not use flammable solvents in processing.
- Do not process goods containing flammable substances. Consult with your local fire department/public safety office and all insurance providers.

5. Safety Alert Messages—Unsafe Conditions [Document BIUUUS14]

5.1. Damage and Malfunction Hazards

5.1.1. Hazards Resulting from Inoperative Safety Devices



WARNING 6: **Multiple Hazards**—Operating the machine with an inoperative safety device can kill or injure personnel, damage or destroy the machine, damage property, and/or void the warranty.

• Do not tamper with or disable any safety device or operate the machine with a malfunctioning safety device. Request authorized service.



WARNING 7: **Electrocution and Electrical Burn Hazards**—Electric box doors— Operating the machine with any electric box door unlocked can expose high voltage conductors inside the box.

• Do not unlock or open electric box doors.



WARNING 8: Entangle and Crush Hazards—Guards, covers, and panels—Operating the machine with any guard, cover, or panel removed exposes moving components.

• Do not remove guards, covers, or panels.

5.1.2. Hazards Resulting from Damaged Mechanical Devices



WARNING 9: Multiple Hazards—Operating a damaged machine can kill or injure personnel, further damage or destroy the machine, damage property, and/or void the warranty.

• Do not operate a damaged or malfunctioning machine. Request authorized service.



CAUTION 10: Machine Damage Hazards—Drive shaft and drive motors—Although the tunnel may operate with drive shafts disconnected between modules or units, or with a motor not functioning, the added stress on drive components will quickly damage the machine.

• Do not operate the machine with any evidence of damage or malfunction.

5.2. Careless Use Hazards

5.2.1. Careless Operation Hazards—Vital Information for Operator Personnel (see also operator hazards throughout manual)



WARNING 11: **Multiple Hazards**—Careless operator actions can kill or injure personnel, damage or destroy the machine, damage property, and/or void the warranty.

- Do not tamper with or disable any safety device or operate the machine with a malfunctioning safety device. Request authorized service.
- Do not operate a damaged or malfunctioning machine. Request authorized service.
- Do not attempt unauthorized servicing, repairs, or modification.
- Do not use the machine in any manner contrary to the factory instructions.
- Use the machine only for its customary and intended purpose.
- Understand the consequences of operating manually.



CAUTION 12: Goods Damage and Wasted Resources—Entering incorrect cake data causes improper processing, routing, and accounting of batches.

• Understand the consequences of entering cake data.

5.2.2. Careless Servicing Hazards—Vital Information for Service Personnel (see also service hazards throughout manuals)



WARNING 13: Electrocution and Electrical Burn Hazards—Contact with electric power can kill or seriously injure you. Electric power is present inside the cabinetry unless the main machine power disconnect is off.

- Do not service the machine unless qualified and authorized. You must clearly understand the hazards and how to avoid them.
- Abide by the current OSHA lockout/tagout standard when lockout/tagout is called for in the service instructions. Outside the USA, abide by the OSHA standard in the absence of

any other overriding standard.



WARNING 14: Entangle and Crush Hazards—Contact with moving components normally isolated by guards, covers, and panels, can entangle and crush your limbs. These components move automatically.

- Do not service the machine unless qualified and authorized. You must clearly understand the hazards and how to avoid them.
- Abide by the current OSHA lockout/tagout standard when lockout/tagout is called for in the service instructions. Outside the USA, abide by the OSHA standard in the absence of any other overriding standard.



WARNING 15: Confined Space Hazards—Confinement in the cylinder can kill or injure you. Hazards include but are not limited to panic, burns, poisoning, suffocation, heat prostration, biological contamination, electrocution, and crushing.

- Do not enter the cylinder until it has been thoroughly purged, flushed, drained, cooled, and immobilized.
- Abide by the confined space entry procedures in the reference manual.

— End of BIUUUS27 —

Safety Placard Use and Placement 76028,76039 G3 CBW & 92048 G4 CBW



Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

1. Replace placard immediately, if removed or Notes:

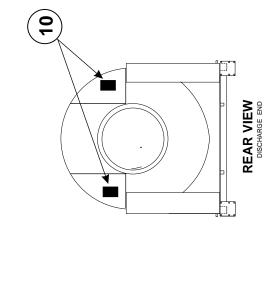
- unreadable.

 2. Approximate locations of placards are shown.

 Mounting holes are provided on machine.

 If aluminum placard use #8 self-tapping screws.

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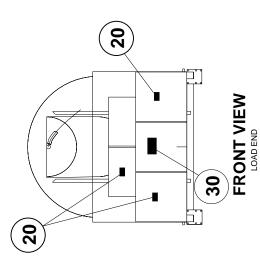
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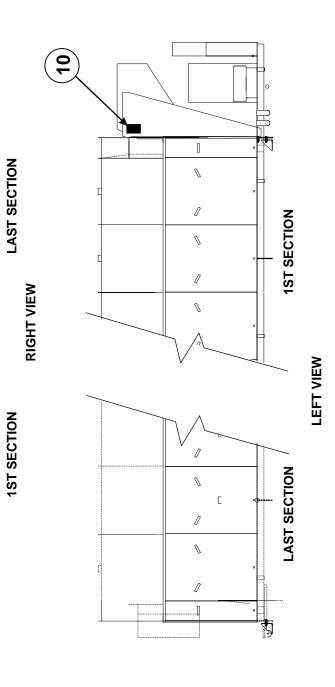
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Litho in U.S.A.

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
			none	
			COMPONENTS	
all all all	10 20 30	01 10511A 01 10377A 01 10699B	NPLT:CBW END HAZARD-TCATA NPLT:ELEC HAZARD LG-TCATA NPLT:SERV HZRD-ALUM-TCATA	

Safety Placard Use and Placement ISO 76028,76039 G3 CBW & 92048 G4 CBW

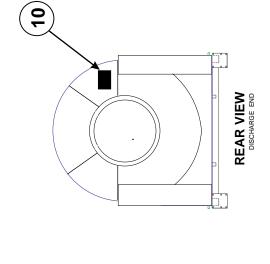


Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

ISO Placards shown on this page

Notes: 1. Replace placard immediately, if removed or unreadable.

2. Approximate locations of placards are shown. Mounting holes are provided on machine. If aluminum placard use #8 self-tapping screws.



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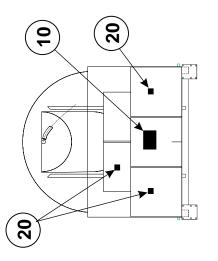
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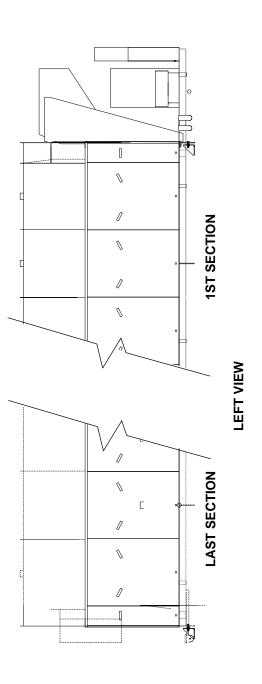
LAST SECTION

RIGHT VIEW

1ST SECTION



FRONT VIEW
LOAD END





Litho in U.S.A.

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
			none	
			COMPONENTS	
all all	10 20	01 10511X 01 10377	NPLT:CBW WARNINGS NPLTE:"WARNING" 4X4	

Litho in U.S.A.

Safety Placard Use and Placement Mentor Controller for CBW



Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

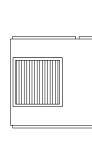
Notes:

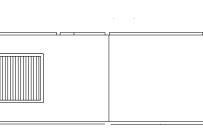
- 1. Replace placard immediately, if removed or
- unreadable.

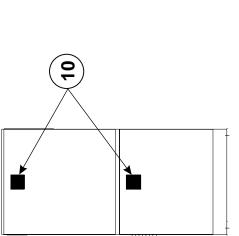
 2. Approximate locations of placards are shown.

 Mounting holes are provided on machine.

 If aluminum placard use #8 self-tapping screws.

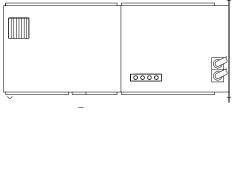








REAR VIEW



RIGHT VIEW

FRONT VIEW



Litho in U.S.A.

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
			none	
			COMPONENTS	
all	10	01 10377A	NPLT:ELEC HAZARD LG-TCATA	

Litho in U.S.A.

Safety Placard Use and Placement ISO **Mentor Controller for CBW**



Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

shown on this page **ISO Placards**

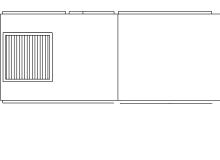
Notes:

- 1. Replace placard immediately, if removed or
- unreadable.

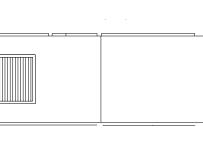
 2. Approximate locations of placards are shown.

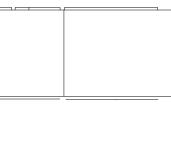
 Mounting holes are provided on machine.

 If aluminum placard use #8 self-tapping screws.



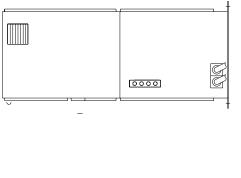
10





REAR VIEW

LEFT VIEW



RIGHT VIEW

FRONT VIEW



Litho in U.S.A.

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
			none	
			COMPONENTS	
all	10	01 10377	NPLTE:"WARNING" 4X4	

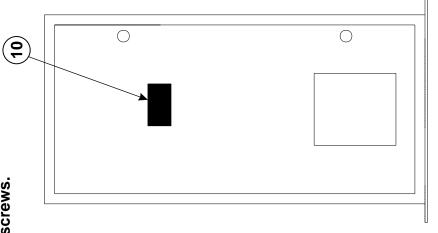
Litho in U.S.A.

Safety Placard Use and Placement Inverter Box for CBW



Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

- Notes:
 1. Replace placard immediately, if removed or unreadable.
 2. Approximate locations of placards are shown.
 Mounting holes are provided on machine.
 If aluminum placard use #8 self-tapping screws.



FRONT VIEW

RIGHT VIEW



Litho in U.S.A.

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
			none	
			COMPONENTS	
all	10	01 10377A	NPLT:ELEC HAZARD LG-TCATA	

Litho in U.S.A.

Safety Placard Use and Placement - ISO **Inverter Box for CBW**



Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

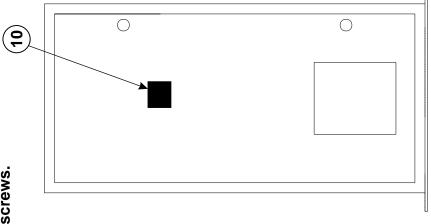
shown on this page **ISO Placards**

- Notes: 1. Replace placard immediately, if removed or
- unreadable.

 2. Approximate locations of placards are shown.

 Mounting holes are provided on machine.

 If aluminum placard use #8 self-tapping screws.



FRONT VIEW

RIGHT VIEW



Litho in U.S.A.

Used In	Item	Part Number		Comments
			ASSEMBLIES	
			none	
			COMPONENTS	
all	10	01 10377	NPLTE:"WARNING" 4X4	

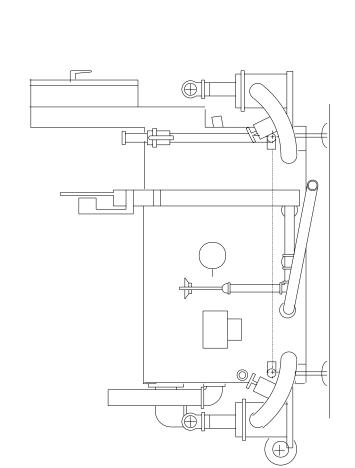
Litho in U.S.A.

Safety Placard Use and Placement TYPICAL ALL CBW AUXILIARY TANKS



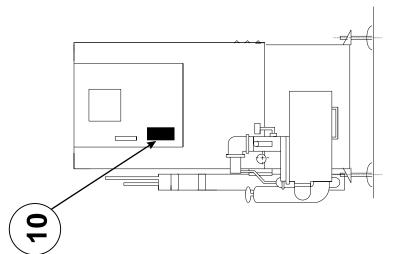
Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

- Notes: 1. Replace placard immediately, if removed or unreadable.
- 2. Approximate locations of placards are shown. Mounting holes are provided on machine. If aluminum placard use #8 self-tapping screws.



Note: Pumps and piping will vary dependent on function.

FRONT VIEW



RIGHT VIEW



Litho in U.S.A.

	Part Number	Description	Comments
		ASSEMBLIES	
		none	
		COMPONENTS	
20	01 10375C	NPLT:E-HAZARD SM VERTCL-TCATA	
	20	20 01 10375C	none COMPONENTS

Litho in U.S.A.

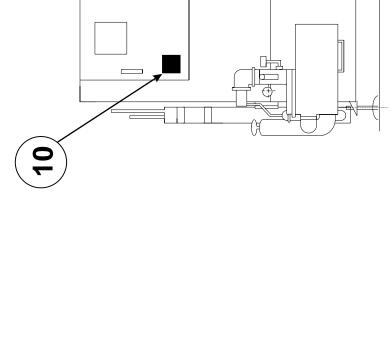
Safety Placard Use and Placement ISO Typical All CBW Auxiliary Tanks

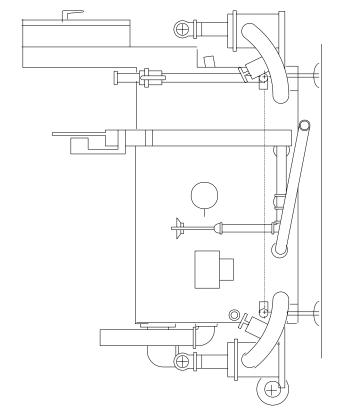


Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

shown on this page **ISO Placards**

- Notes: 1. Replace placard immediately, if removed or unreadable.
- 2. Approximate locations of placards are shown. Mounting holes are provided on machine. If aluminum placard use #8 self-tapping screws.





Note: Pumps and piping will vary dependent on function.

FRONT VIEW

RIGHT VIEW



Litho in U.S.A.

Used In	Item	Part Number		Comments
			ASSEMBLIES	
			none	
			COMPONENTS	
all	20	01 10375	NPLTE:"WARNING" 2X2	

Proximity Safeguarding for Automatic Shuttle Conveyors

Proximity safeguarding—a means of preventing personnel from entering the path of a machine, such as an industrial robot, that moves within a large area.

1. Applicability

This document—

applies to Milnor[®] automated laundering systems with shuttle conveyors that move without operator intervention (automatic operation),

does *not* **apply** to shuttles that require operator input continually, such as directing all shuttle movements (manual operation).

2. References for Proximity Safeguarding

ANSI Z8.1-2016 "American National Standard for Commercial Laundry and Drycleaning Equipment and Operations - Safety Requirements"

OSHA Standard 29 CFR § 1910.212 "General Requirements for All Machines"

OSHA Directive STD 01-12-002 - Pub 8-1.3 "Guidelines for Robotic Safety"

ANSI/RIA R15.06-2012 "American National Standard for Industrial Robots and Robot Systems- Safety Requirements"

ANSI/ASME B15.1-2000 "Safety Standard for Mechanical Power Transmission Apparatus" OSHA Publication 3067 "Concepts and Techniques of Machine Safeguarding" ISO 10472-1 "Safety Requirements for Industrial Laundry Machinery"

3. Hazards To Personnel in Proximity to Shuttle Conveyors

Milnor automated laundering systems use automatic shuttle conveyors to transport goods among the processing machines in the system. Depending on model, an automatic shuttle conveyor may move in any of the following ways, in addition to running its conveyor belt(s):

- It may travel along (traverse) a line of machines (typically dryers).
- Its conveyor bed(s) may ascend and descend (elevate) within the machine frame.
- Its conveyor bed(s) may extend and retract within the machine frame.
- The conveyor bed and frame may pivot.
- Wet goods shuttles have a bucket that elevates and tilts.

These motions pose strike, crush, sever, and entrapment hazards to personnel in proximity to the shuttle. For the safety of personnel, owner/users must provide proximity safeguarding that protects personnel from the moving shuttle.

A common method of proximity safeguarding is safety fencing with interlocked gates that disable the shuttle when a gate is opened. When a shuttle is disabled, this will eventually cause other machines in the system to hold (wait for action from another machine), but it will not necessarily cause them to immediately stop moving. In the case of a tunnel system, the press or centrifugal extractor can pose additional hazards to personnel in proximity to the equipment. **Hence, the safeguards must also disable any presses or extractors.** Tunnels and dryers do not pose a significant hazard to personnel merely because they are in proximity to the equipment, and need not be automatically disabled.



WARNING 1: Multiple Hazards—Proximity safeguarding provides only partial protection and only against injury resulting from entering the shuttle path. It is not a substitute for proper

lockout/tagout procedures and good safety practices.

- Always lockout/tagout any individual machine (or follow the published maintenance procedures) when performing maintenance or clearing a fault on that machine.
- Ensure that all personnel understand the safeguards and do not attempt to defeat them.
- Inspect safeguards weekly to ensure that they are not mechanically or electrically circumvented.

4. How Milnor Accommodates Proximity Safeguarding

Milnor provides connection points on shuttles, presses and centrifugal extractors for interfacing with devices such as gate interlock switches. These connection points are tagged for easy identification. When Milnor provides equipment layout drawings for an automated laundering system, it indicates on the drawing, the perimeter of the shuttle movement area that must be guarded. The following hazard statement is displayed on connection point tags as well as equipment layout drawings prepared by Milnor:



WARNING 2: Strike, Crush, Sever, and Entrapment Hazards—Serious bodily injury or death can result to personnel in proximity to machinery/systems that traverse, elevate, extend, pivot, and/or tilt. The following mandatory minimum safety requirements must be installed with the machinery system (local codes may require additional precautions):

- Safety fence enclosing machine movement areas,
- Lockable electrical interlocks on all gates, properly interfaced as shown on machine schematics, to disable machine movement when any gate is opened,
- Signs to alert personnel to these hazards, placed prominently around the fenced area.

Although the objectives of proximity safeguarding are the same anywhere, design requirements vary with local codes (which occasionally change) and with the plant layout. For this reason, Milnor does not provide detailed designs or materials for proximity safeguarding. If the necessary expertise does not exist within the owner/user's organization, consult appropriate sources such as local engineers or architects specializing in industrial facility design.

5. Examples of Safety Fencing With Interlocked Gates

Fencing with interlocked gates like that depicted in Figure 1 and Figure 2, may be used to meet the proximity safeguarding requirement. Should the owner/user choose this method, the following information may be useful. However, this information may not satisfy current or local code requirements. The owner/user must determine its suitability for his particular facility.

Figure 1: Example Fence Layout for Automated Laundering System Where One Tunnel Serves a Bank of Dryers

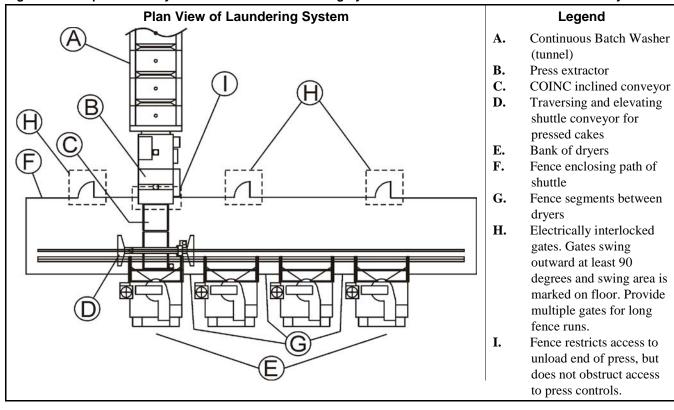
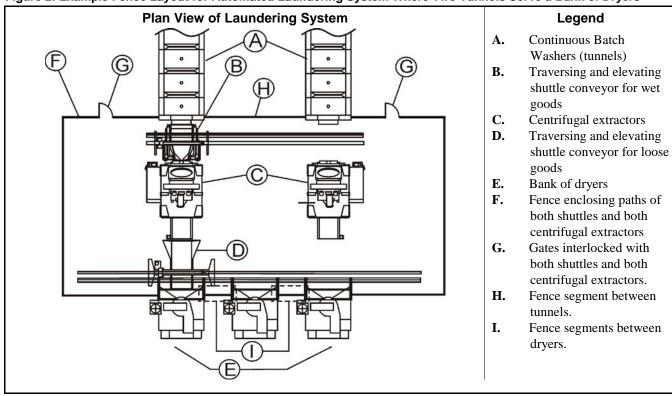


Figure 2: Example Fence Layout for Automated Laundering System Where Two Tunnels Serve a Bank of Dryers



- **5.1. Fence Dimensions**—The fence must discourage climbing over and prevent crawling under.
- **5.2. Fence Materials and Setback**—The fence must be constructed of materials and located so as to prevent personnel from reaching through gaps in the fence and contacting the enclosed machinery.
- **5.3. Gates**—Personnel gates must be held firmly closed but permit personnel to easily pass through when necessary. Gates must be equipped with a positive latching arrangement to prevent accidental opening. Adequate floor space must be provided to allow the gate to swing at least 90 degrees when fully open. Gates must open outward; that is, away from the fenced perimeter. The floor must be permanently marked to show the gate's swing area, to discourage obstructing its movement.
- **5.4. Control Circuitry**—All gates must be electrically interlocked with any shuttle conveyors within the fenced area and with any presses or centrifugal extractors that the fence either encloses or intersects. Opening any gate must have the following effects:
 - 1. Shuttle(s), press(es), and/or centrifugal extractor(s) stop moving immediately.
 - 2. An audible alarm sounds.
 - 3. Shuttle(s), press(es), and/or centrifugal extractor(s) cannot be restarted merely by closing the gate(s), but must be restarted at the machine control panel once the gate(s) are closed.

Milnor shuttles, presses and centrifugal extractors provide such functionality when properly interfaced with gate interlock switches.

- **5.5. System Emergency Stop Switches**—The laundry must establish rules and procedures that prohibit personnel from remaining within the fenced area with machine(s) enabled, except in accordance with published maintenance procedures. System emergency stop switches (panic buttons) should be provided inside and outside the fenced perimeter. Emergency stop switches should be located so that personnel anywhere inside the fenced perimeter are only a short distance from a switch, and they should be clearly marked as to their locations and function. Connect switches in series with the gate interlocks so that pressing an emergency stop switch performs the same control function as opening a gate.
- **5.6. Isolating Individual Machine Controls**—The interlock circuitry for each machine must be electrically isolated from that of the other machines. Hence, each gate interlock switch must provide as many pairs of dry contacts as there are machines to interface to. A pair of switch contacts must never be shared by two or more machines.
- **5.7. Recommended Signage**—Safety placards should be posted along the fence and at each gate, alerting personnel to the hazards within. At minimum, the size of lettering and distance between placards should be such that anyone contemplating entering the fenced area will likely see and read the placard first. Wording should be provided in each native language spoken by laundry personnel.

- End of BISUUI01 -

BIPCUI02 (Published) Book specs- Dates: 20160113 / 20160113 / 20160113 Lang: ENG01 Applic: PCU

Connecting Ancillary Equipment and Services

1. Placement of Ancillary Components

Ancillary components not mounted to the tunnel must be installed close to the tunnel washer. The locations for your system should be shown on the system layout drawings. Recommended locations are also shown on the standard dimensional drawings for the tunnel and related equipment.

Set the Mentor console on a flat surface. Bolt the console to the floor if desired. The following ancillary components apply to conventional tunnels only, not PulseFlow tunnels: Install the reuse, flow-splitter, and flow lifter tanks on grout so that they are level, cannot move, and sealed against dirt and grime where the tank meets the floor. The top edge of the dam for the wire filter must be level so that water is evenly distributed over the surface of the wire filter. Additionally the flow-splitter and flow-lifter tanks must be low enough that the tank inlet is at or below the level of the weir box outlet. Set all pumps flat on the slab so that they are as low as possible.

2. Plumbing Connections

The sizes and locations of utility connections vary with machine configuration. Those for your system should be shown on the system layout drawings. The following general instructions apply to all systems.

- **2.1. Fresh Water**—Incoming fresh water connects to the fresh water header which connects to each fresh water inlet. The following applies to 76032_ (G1) tunnels only: Although the ball valve actuators are fitted with needle valves to adjust the rate at which the valves close, there is some possibility that water hammer will be experienced if the incoming water pressure is above 50 PSI (345 Kpa) especially if the water piping is small and/or not fastened securely. For severe conditions it may be necessary to install pressure regulators and/or shock absorbers on the water lines.
- **2.2. Reuse Water**—On-site connections are necessary for some reuse water (example: water returned to the reuse or pulse flow tank from the extraction system). This piping is shown on the layout drawings for your system.
- **2.3. Steam**—Connect main steam (at the steam strainer) to the tunnel washer steam header. Install a manual steam shutoff valve so the steam valves can be repaired. Discharge condensate into the tunnel drain trough. Do not return condensate to the boiler.
- **2.4. Compressed Air**—Estimated compressed air consumption is approximately 5 SCFM per minute at a minimum of 85 PSI.
- **2.5. Drains for Discharged Water**—Consult local codes for equipment that can be necessary (example: traps) when you connect to a sanitary sewer. In addition to the module outlets to the sewer, the machine also has drain-off connections for water that drips between modules or units.
- **2.6. Vents for Discharged Vapors**—Vapors generated in the oxidation zone and the finish zone of the tunnel can mix together, produce noxious gasses, and corrode equipment. Without adequate ventilation, these vapors will exit the tunnel discharge ring or concentrate in the discharge end of the tunnel and adjacent press enclosure. The severity varies with chemical composition and usage, but corrosion can be rapid and severe.

Each tunnel module is provided with a vent at the top of the shell. These vents are capped at the factory for shipping. **Uncap all vents at installation.** The best practice is to provide two separate, powered ventilation units that meet the following conditions:

- The two units are isolated from each other to avoid harmful chemical reactions.
- Ventilation fans have sufficient power to draw vapors away from the equipment. Milnor recommends 600 to 750 SCFM for the oxidation zone (300 to 375 per connection point, if two modules) and 600 to 750 SCFM for the finish zone plus the press enclosure (200 to 250 SCFM per connection point, if two modules plus the press). The SCFM values are based on an ambient air temperature of 68°F (20°C) and a minimal relative humidity.
- Fan motors are equipped with an alarm (example: indicator light) to alert personnel if a motor fails.

Figure 1 shows the recommended configuration for a tunnel with more than seven modules. Smaller tunnels are similar, but consult the Milnor factory.

Side View (cut lines indicate a tunnel larger than 7 modules)

Pt. Powered vent on module

B. Oxidation zone per chemical supplier

F. Finish zone

Figure 1: Recommended Vent System for the CBW® Tunnel Washer and an Adjacent Press

It is not recommended to connect modules ahead of the oxidation zone to a powered vent system. However, if conditions warrent this, Milnor recommends the configuration shown in Figure 2. If this configuration is needed, add 200 to 250 SCFM of powered ventilation per additional module vented.

Powered vent on press equipped to vent vapors

Pp.

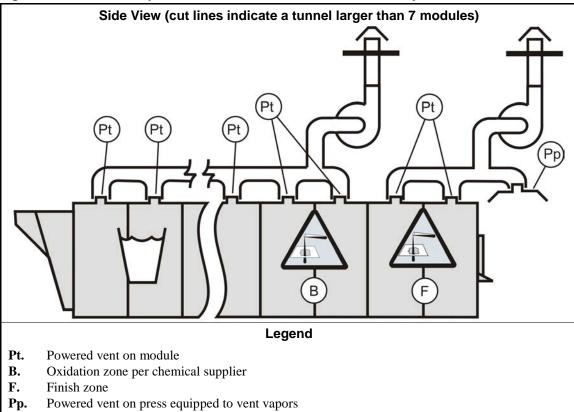


Figure 2: Alternate Vent System for the CBW® Tunnel Washer and an Adjacent Press

2.7. Connections For Chemical Injection—Make sure that the piping or tubing used to deliver the chemicals to chemical injection points has correct characteristics (working pressure, burst pressure, temperature resistance, chemical resistance, etc.) for the purpose intended. Remember that momentary pressures two or three times the normal chemical pressure can occur as a chemical valve closes.

Be sure the chemical lines are routed such that they are not subject to damage from external heat sources, or abrasion, or any other source of mechanical damage. Inspect all chemical delivery piping daily for leaks, loose connections, frayed or abraded areas, soft or weak places.



CAUTION 1: Machine Damage Hazards—Pumped chemical systems, if not properly installed, can cause corrosion damage.

• See the installation manual for precautions and additional information before making any chemical connections.

3. Power Connections

A junction box is available at either end of the tunnel washer to supply power to the entire tunnel washer, each of the pumps (up to 5 pumps), the motor for the Conlo (or Conwa) and the power for the Mentor.

A single terminal in the inverter enclosure supplies power to the entire tunnel washer, each of the pumps (up to 5 pumps), the motor for the Conlo (or Conwa) and the power for the Mentor.

The Mentor power cable connects to terminals within the standard output box on the first module. Connect one side of the ground wire (in the Mentor power cable) to the ground terminal inside

the standard output box. Connect the other side of the ground wire to the ground terminal inside the mentor enclosure.

4. Ground (earth) Connections

A very reliable, secure, and substantial ground (earth) connection is necessary for the proper functioning of any solid state controller. If practical, the ground connection should be via means of a metal rod driven securely at least 3 feet into the earth, and connected to the MENTOR by a copper wire no less than No. 10 AWG (.05 square Millimeter cross section area). The run of copper should not be longer than 10 feet (3 meters).

When it is impossible to provide such a ground connection, the next best is a firm connection to a metal water pipe which is known to be continuous and known to go into the earth a substantial distance.

- End of BIPCUI02 -

BIUUUI02PL (Published) Book specs- Dates: 20170824 / 20170824 / 20170824 Lang: ENG01 Applic: PCL

Tag Guidelines for the Models Listed Below

76028L3F 76028L4F 76028L4S 76028L5F 76028L5S 76039L3F 76039L3S 76039L4F 76039L4S

Notice 1: This information may apply to models in addition to those listed above. It applies to paper tags. It does not apply to the vinyl or metal safety placards, which must remain permanently affixed to the machine and replaced if no longer readable.

Paper tags on the machine provide installation guidelines and precautions. The tags can be tie-on or adhesive. You can remove tie-on tags and white, adhesive tags after installation. Yellow adhesive tags must remain on the machine.

The following entries explain the installation tags. Each entry includes: 1) the tag illustration, 2) the tag part number displayed st the bottom of the tag, and 3) the meaning of the tag.

Display or Action





Explanation

Read the manuals before proceeding. This symbol appears on most tags. The machine ships with safety, operator, and routine maintenance guides for customer use. Milnor dealer manuals for installing, servicing, and commissioning this machine are also available from the Milnor Parts department.

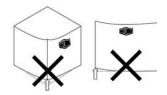
B2TAG88005: This carefully built product was tested and inspected to meet Milnor[®] performance and quality standards by (identification mark of tester).



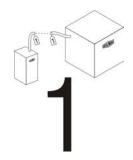
B2TAG94078: Do not forklift here; do not jack here; do not step here—whichever applies.



B2TAG94081: Motor must rotate in this direction. On single motor washer-extractors and centrifugal extractors, the drive motor must turn in this direction during draining and extraction. This tag is usually wrapped around a motor housing. If the motor turns in the opposite direction when the machine is first tested, the electrical hookup is incorrect and must be reversed as explained in the schematic manual.

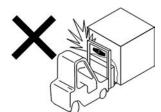


B2TAG94084: Do not lift from one corner of the machine, as this can cause the frame to rack, damaging it.



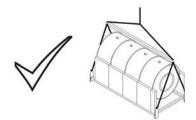
B2TAG94102 shown—others similar: Match up the components with this number. These tags are used to pair up electrical or hose connections between major components of a machine shipped dis-assembled.

Display or Action



Explanation

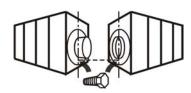
B2TAG94118: Do not strike shipping container during fork-lifting. Fragile components inside.



B2TAG94144: Lift tunnel units as shown, using the lifting eyes and spreader bar.



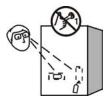
B2TAG94146: Fill with oil to this level.



B2TAG98006: Aligh top dead center bolts when mating CBW tunnel washer units.



B2TAG99006: Do not loosen allen screws. Screws hold springs under tension which can fly out with great force.

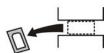


B2T2001028: Look for tags inside the machine. These tags may identify shipping restraints to be removed or components to be installed. Do not start the machine until these actions are completed.

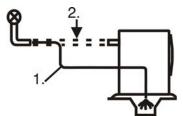
B2T2002013: Do not start the machine until shipping restraints



are removed. This tag will appear on the outside of the machine to alert you to the presence of internal shipping restraints. A tag will also appear on the restraint to help identify it. Most, but not all shipping restraints display the color red. Some shipping restraints are also safety stands. Do not discard these.



Display or Action



Explanation

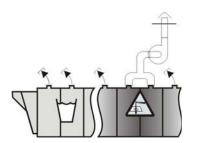
B2T2002032: Flush incoming water lines before making connections.



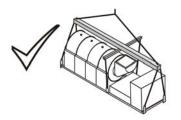
B2T2003014: Make sure that you use the specified hydraulic oil.



B2T2004027: Steam connection (optional)



B2T2008001: Read the installation instructions. Remove temporary vent covers. Install a powered vent unit on the oxidation zone modules and a separate powered vent unit on the finish zone module and adjacent press, if there is one.

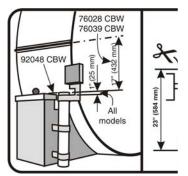


B2T2010018: Lift from all lifting points and use spreader bars as shown. (Used on PulseFlow machines only.)



B2T2010023: Set the press frame in accordance with this instruction and the installation manual.

Display or Action



Explanation

B2T2011014: Set clips on level float rods as shown.

— End of BIUUUI02 —

Prevent Damage from Chemical Supplies and Chemical Systems

BNUUUR02.C01 0000160549 B.3 E.3 1/2/20 2:14 PM Released

All Milnor® washer-extractors and CBW® tunnel washers use stainless steel with the ANSI 304 specification. This material gives good performance when chemical supplies are correctly applied. If chemical supplies are incorrectly applied, this material can be damaged. The damage can be very bad and it can occur quickly.

Chemical supply companies usually:

- supply chemical pump systems that put the supplies in the machine,
- connect the chemical pump system to the machine,
- write wash formulas that control the chemical concentrations.

The company that does these procedures must make sure that these procedures do not cause damage. Pellerin Milnor Corporation accepts no responsibility for chemical damage to the machines it makes or to the goods in a machine.

1. How Chemical Supplies Can Cause Damage

BNUUUR02.R01 0000160548 B.4 E.3 1/2/20 2:14 PM Released

Dangerous Chemical Supplies and Wash Formulas — Some examples that can cause damage are:

- a very high concentration of chlorine bleach,
- a mixture of acid sour and hypo chlorite,
- chemical supplies (examples: chlorine bleach, hydrofluosilicic acid) that stay on the stainless steel because they are not quickly flushed with water.

The book "Textile Laundering Technology" by Charles L. Riggs gives data about correct chemical supplies and formulas.

Incorrect Configuration or Connection of Equipment — Many chemical systems:

- do not prevent a vacuum in the chemical tube (for example, with a vacuum breaker) when the pump is off,
- do not prevent flow (for example, with a valve) where the chemical tube goes in the machine.

Damage will occur if a chemical supply can go in the machine when the chemical system is off. Some configurations of components can let the chemical supplies go in the machine by a siphon (Figure 1: Incorrect Configurations That Let the Chemical Supply Go In the Machine by a Siphon, page 2). Some can let chemical supplies go in the machine by gravity (Figure 2: Incorrect Configurations That Let the Chemical Supply Go In the Machine by Gravity, page 3).

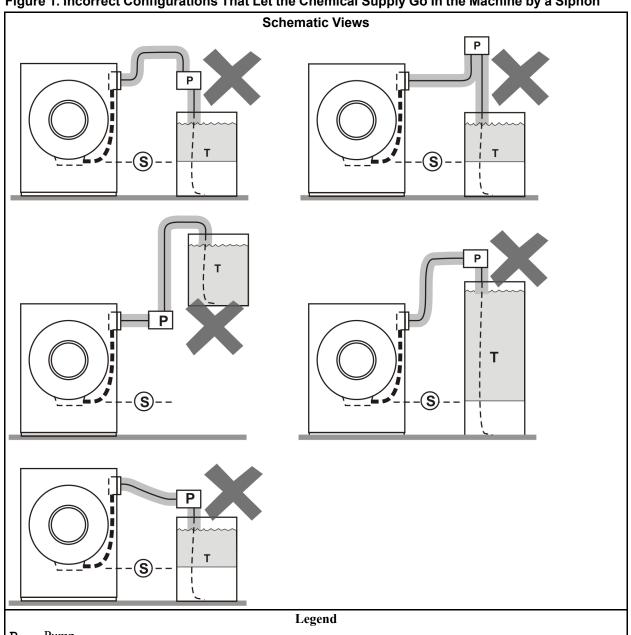


Figure 1. Incorrect Configurations That Let the Chemical Supply Go In the Machine by a Siphon

P...Pump

 $\boldsymbol{\mathtt{T}}\dots$ Chemical tank

S... The siphon occurs above here. Liquid in the gray parts of the chemical tube and tank can go in the machine.

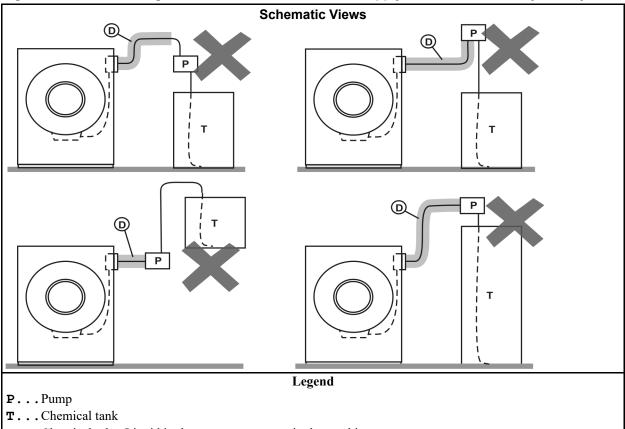


Figure 2. Incorrect Configurations That Let the Chemical Supply Go In the Machine by Gravity

D... Chemical tube. Liquid in the gray areas can go in the machine.

Equipment and Procedures That Can Prevent Damage BNUUR02.R02 0000160545 B.3 E.3 1/2/20 2:14 PM Released

Use the chemical manifold supplied. — There is a manifold on the machine to attach chemical tubes from a chemical pump system. The manifold has a source of water to flush the chemical supplies with water.

Figure 3. Examples of Manifolds for Chemical Tubes. Your equipment can look different.



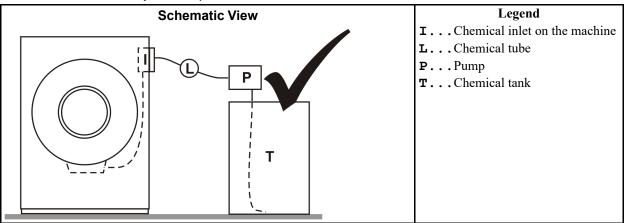
Close the line. — If the pump does not always close the line when it is off, use a shutoff valve to do this.

Do not let a vacuum occur. — Supply a vacuum breaker in the chemical line that is higher than the full level of the tank.

Flush the chemical tube with water. — If the liquid that stays in the tube between the pump and the machine can flow in the machine, flush the tube with water after the pump stops.

Put the chemical tube fully below the inlet. — It is also necessary that there is no pressure in the chemical tube or tank when the system is off.

Figure 4. A Configuration that Prevents Flow in the Machine When the Pump is Off (if the chemical tube and tank have no pressure)



Prevent leaks. — When you do maintenance on the chemical pump system:

- Use the correct components.
- Make sure that all connections are the correct fit.
- Make sure that all connections are tight.

End of document: BNUUUR02

BIUUUM04 (Published) Book specs- Dates: 20180109 / 20180109 / 20180109 Lang: ENG01 Applic: UUU

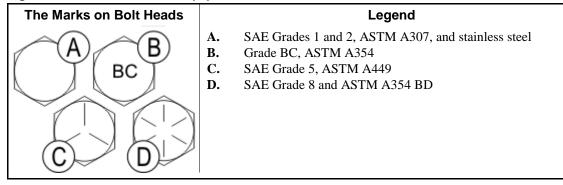
Torque Requirements for Fasteners



This document uses Simplified Technical English. Learn more at http://www.asd-ste100.org.

The document about the assembly gives the torque requirements for other fasteners. If fastener torque specifications or threadlocker requirements in an assembly document are different from this document, use the assembly document.

Figure 1: The Bolts in Milnor® Equipment



1. Torque Values

These tables give the standard dimension, grade, threadlocker, and torque requirements for fasteners frequently used on Milnor® equipment.

Note 1: Data from the Pellerin Milnor® Corporation "Bolt Torque Specification" (bolt_torque_milnor.xls/2002096).

1.1. Fasteners Made of Carbon Steel

1.1.1. Without a Threadlocker

Table 1: Torque Values for Standard Fasteners with Maximum 5/16-inch Diameters and No Lubricant

		The Grade of the Bolt									
	Grade 2	rade 2 Grade 5		Grade 8		Grade BC					
Dimension	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m			
1/4 x 20	66	7	101	11	143	16	126	14			
1/4 x 28	76	9	116	13	163	18					
5/16 x 18	136	15	209	24	295	33	258	29			
5/16 x 24	150	17	232	26	325	37					

Table 2: Torque Values for Standard Fasteners Larger Than 5/16-inch Diameters and No Lubricant

				The Grade	of the Bolt			
ļ	Grad	de 2	Gra	de 5	Grad	de 8	Grade	e BC
Dimension	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
3/8 x 16	20	27	31	42	44	59	38	52
3/8 x 24	23	31	35	47	50	68		
7/16 x 14	32	43	49	66	70	95	61	83
7/16 x 20	36	49	55	75	78	105		
1/2 x 13	49	66	75	102	107	145	93	126
1/2 x 20	55	75	85	115	120	163		
9/16 x 12	70	95	109	148	154	209	134	182
9/16 x 18	78	106	121	164	171	232		
5/8 x 11	97	131	150	203	212	287	186	252
5/8 x 18	110	149	170	231	240	325		
3/4 x 10	172	233	266	361	376	510	329	446
3/14 x 16	192	261	297	403	420	569		
7/8 x 9	167	226	429	582	606	821	531	719
7/8 x 14	184	249	473	641	668	906		
1 x 8	250	339	644	873	909	1232	796	1079
1 x 12	274	371	704	954	994	1348		
1 x 14	281	381	723	980	1020	1383		
1 1/8 x 7	354	480	794	1077	1287	1745	1126	1527
1 1/8 x 12	397	538	891	1208	1444	1958		
1 1/4 x 7	500	678	1120	1519	1817	2464	1590	2155
1 1/4 x 12	553	750	1241	1682	2012	2728		
1 3/8 x 6	655	888	1469	1992	2382	3230	2085	2827
1 3/8 x 12	746	1011	1672	2267	2712	3677		
1 1/2 x 6	869	1178	1949	2642	3161	4286	2767	3751
1 1/2 x 12	979	1327	2194	2974	3557	4822		

 Table 3: Torque Values for Plated Fasteners with Maximum 5/16-inch Diameters and No Lubricant

		The Grade of the Bolt											
	Grade 2 Grade 5 Grade 8 Grade												
Dimension	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m					
1/4 x 20	49	6	76	9	107	12	95	11					
1/4 x 28	56	6	88	10	122	14							
5/16 x 18	102	12	156	18	222	25	193	22					
5/16 x 24	113	13	174	20	245	28							

Table 4: Torque Values for Plated Fasteners Larger Than 5/16-inch Diameters and No Lubricant

				The Grade	of the Bolt			
	Grae	de 2	Gra	de 5	Grae	de 8	Grade	e BC
Dimension	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
3/8 x 16	15	20	23	31	33	44	29	38
3/8 x 24	17	23	26	35	37	49		
7/16 x 14	24	32	37	50	52	71	46	61
7/16 x 20	27	36	41	55	58	78		
1/2 x 13	37	49	56	76	80	106	70	93
1/2 x 20	41	55	64	85	90	120		
9/16 x 12	53	70	81	110	115	153	101	134
9/16 x 18	59	79	91	122	128	174		
5/8 x 11	73	97	113	150	159	212	139	186
5/8 x 18	83	110	127	172	180	240		
3/4 x 10	129	173	200	266	282	376	246	329
3/14 x 16	144	192	223	297	315	420		
7/8 x 9	125	166	322	430	455	606	398	531
7/8 x 14	138	184	355	474	501	668		
1 x 8	188	250	483	644	682	909	597	796
1 x 12	205	274	528	716	746	995		
1 x 14	210	280	542	735	765	1037		
1 1/8 x 7	266	354	595	807	966	1288	845	1126
1 1/8 x 12	298	404	668	890	1083	1444		
1 1/4 x 7	375	500	840	1120	1363	1817	1192	1590
1 1/4 x 12	415	553	930	1261	1509	2013		
1 3/8 x 6	491	655	1102	1470	1787	2382	1564	2085
1 3/8 x 12	559	758	1254	1672	2034	2712		
1 1/2 x 6	652	870	1462	1982	2371	3161	2075	2767
1 1/2 x 12	733	994	1645	2194	2668	3557		

1.1.2. With a Threadlocker

Table 5: Threadlocker by the Diameter of the Bolt (see Note 2)

		Dimension								
LocTite Product	1/4-inch	1/4- to 5/8-inch	5/8- to 7/8-inch	1-inch +						
LocTite 222	OK									
LocTite 242		O	K							
LocTite 262			O	K						
LocTite 272			nperature							
LocTite 277				OK						

Note 2: The acceptable bolt size ranges for various LocTite® threadlocking products is the LocTite manufacturer's **general** recommendation. Specific applications sometime require that a LocTite product is applied to a bolt size outside the ranges shown here. For example, Milnor specifies LocTite 242 for use on certain 1" bolt applications and has confirmed this usage with the LocTite manufacturer. You may see variances such as this in the documentation for specific machine assemblies.

Table 6: Torque Values if You Apply LocTite 222

		The Grade of the Bolt									
	Grade 2		Grade 5		Grade 8		Grade BC				
Dimension	Pound-inc hes	N-m	Pound-inc hes	N-m	Pound-inc hes	N-m	Pound-inc hes	N-m			
1/4 x 20	60	7	96	11	132	15	108	12			
1/4 x 28	72	8	108	12	144	16					

Table 7: Torque Values if You Apply LocTite 242

				The Grade	of the Bolt			
	Grad	de 2	Gra	de 5	Grad	le 8	Grade	e BC
Dimension	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
5/16 x 18	11	15	17	23	25	34	22	30
5/16 x 24	13	18	19	26	27	37	27	37
3/8 x 16	20	27	31	42	44	60	38	52
3/8 x 24	23	31	35	47	50	68		
7/16 x 14	32	43	49	66	70	95	61	83
7/16 x 20	36	49	55	75	78	106		
1/2 x 13	49	66	75	102	107	145	93	126
1/2 x 20	55	75	85	115	120	163		
9/16 x 12	70	95	109	148	154	209	134	182
9/16 x 18	78	106	121	164	171	232		
5/8 x 11	97	132	150	203	212	287	186	252
5/8 x 18	110	149	170	230	240	325		

Table 8: Torque Values if You Apply LocTite 262

			of the Bolt					
	Gra	de 2	Grade 5		Grade 8		Grade BC	
Dimension	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
3/4 x 10	155	210	240	325	338	458	296	401
3/4 x 16	173	235	267	362	378	512		
7/8 x 9	150	203	386	523	546	740	477	647
7/8 x 14	165	224	426	578	601	815		

Table 9: Torque Values if You Apply LocTite 272 (High-Temperature)

				The Grade	of the Bolt			
	Grade 2		Grade 5		Grad	le 8	Grad	e BC
Dimension	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
1 x 8	350	475	901	1222	1272	1725	1114	1510
1 x 12	383	519	986	1337	1392	1887		
1 x 14	393	533	1012	1372	1428	1936		
1-1/8 x 7	496	672	1111	1506	1802	2443	1577	2138
1-1/8 x 12	556	754	1247	1691	2022	2741		
1-1/4 x 7	700	949	1568	2126	2544	3449	2226	3018
1-1/4 x 12	774	1049	1737	2355	2816	3818		
1-3/8 x 6	917	1243	2056	2788	3335	4522	2919	3958
1-3/8 x 12	1044	1415	2341	3174	3797	5148		
1-1/2 x 6	1217	1650	2729	3700	4426	6001	3873	5251
1-1/2 x 12	1369	1856	3071	4164	4980	6752		

Table 10: Torque Values if You Apply LocTite 277

				The Grade	e of the Bolt			
	Grad	de 2	Grae	de 5	Grad	le 8	Grad	e BC
Dimension	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
1 x 8	325	441	837	1135	1181	1601	1034	1402
1 x 12	356	483	916	1242	1293	1753		
1 x 14	365	495	939	1273	1326	1798		
1-1/8 x 7	461	625	1032	1399	1674	2270	1464	1985
1-1/8 x 12	516	700	1158	1570	1877	2545		
1-1/4 x 7	650	881	1456	1974	2362	3202	2067	2802
1-1/4 x 12	719	975	1613	2187	2615	3545		
1-3/8 x 6	851	1154	1909	2588	3097	4199	2710	3674
1-3/8 x 12	970	1315	2174	2948	3526	4781		
1-1/2 x 6	1130	1532	2534	3436	4110	5572	3597	4877
1-1/2 x 12	1271	1723	2852	3867	4624	6269		

1.2. Stainless Steel Fasteners

Table 11: Torque Values for Stainless Steel Fasteners 5/16-inch and Smaller

	316 Stainless		18-8 St	ainless	18-8 Stainless with Loctite 767		
Dimension	Pound-Inc hes	N-m	Pound-Inc hes	N-m	Pound-Inc hes	N-m	
1/4 x 20	79	9	76	9	45	5	
1/4 x 28	100	11	94	11	56	6	
5/16 x 18	138	16	132	15	79	9	
5/16 x 24	148	17	142	16	85	10	

Table 12: Torque Values for Stainless Steel Fasteners Larger Than 5/16-inch

	316 Sta	ainless	18-8 St	ainless	18-8 Stair Loctit	
Dimension	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
3/8 x 16	21	28	20	27	12	16
3/8 x 24	23	31	22	29	13	18
7/16 x 14	33	44	31	42	19	25
7/16 x 20	35	47	33	45	20	27
1/2 x 13	45	61	43	58	26	35
1/2 x 20	47	64	45	61	27	37
9/16 x 12	59	81	57	77	34	46
9/16 x 18	66	89	63	85	38	51
5/8 x 11	97	131	93	125	56	75
5/8 x 18	108	150	104	141	62	84
3/4 x 10	132	179	128	173	77	104
3/4 x 16	130	176	124	168	75	101
7/8 x 9	203	275	194	263	116	158
7/8 x 14	202	273	193	262	116	157
1 x 8	300	406	287	389	172	233
1 x 14	271	367	259	351	156	211
1-1/8 x 7	432	586	413	560	248	336
1-1/8 x 12	408	553	390	529	234	317
1-1/4 x 7	546	740	523	709	314	425
1-1/4 x 12	504	683	480	651	288	390
1-1/2 x 6	930	1261	888	1204	533	722
1-1/2 x 12	732	992	703	953	422	572

2. Preparation



WARNING 2: **Fire Hazard**—Some solvents and primers are flammable.

- Use threadlocker and primers with sufficient airflow.
- Do not use flammable material near ignition sources.
- 1. Clean all threads with a wire brush or a different tool.
- 2. Remove the grease from the fasteners and the mating threads with solvent. Make the parts dry.

Note 3: LocTite 7649 Primer[™] or standard solvents will remove grease from parts.

3. Apply a spray of LocTite 7649 Primer[™] or equal on the fasteners and the mating threads. Let the primer dry for one minute minimum.

3. How to Apply a Threadlocker

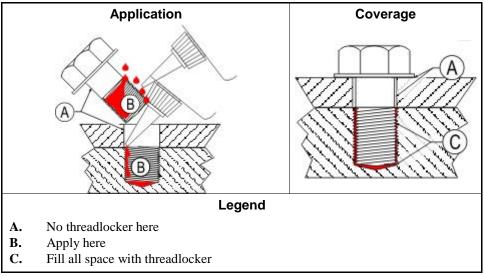


CAUTION 3: Malfunction Hazard—Heat, vibration, or mechanical shocks can let the fasteners loosen if you do not apply the threadlocker correctly. Loose fasteners can cause malfunctions of the equipment.

• Read the threadlocker manufacturer's instructions and warnings. Obey these instructions.

Apply the threadlocker only to the areas where the fastener threads and the mating threads engage.

Figure 2: Blind Hole



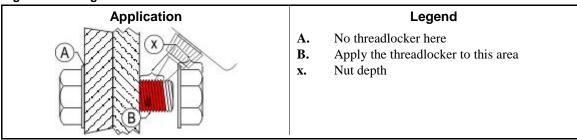
3.1. Blind Holes

- 1. Apply the threadlocker down the threads to the bottom of the hole.
- 2. Apply the threadlocker to the bolt.
- 3. Tighten the bolt to the value shown in the correct table (Table 5 to Table 11).

3.2. Through Holes

- 1. Put the bolt through the assembly.
- 2. Apply the threadlocker only to the bolt thread area that will engage the nut.
- 3. Tighten the bolt to the value shown in the correct table (Table 5 to Table 11).

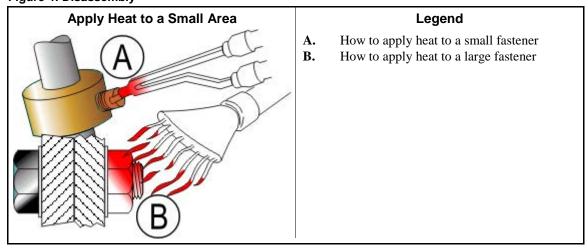
Figure 3: Through Hole



3.3. Disassembly—For high-strength threadlocker, apply heat for five minutes. Disassemble with hand tools while the parts are hot.

For low-strength and moderate-strength threadlocker, disassemble with hand tools.

Figure 4: Disassembly



— End of BIUUUM04 —

Installation 2

ATTENTION INSTALLERS!

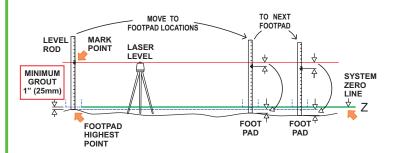


PRESS MUST BE HIGH ENOUGH

If you set the press at a low area of the floor, you may not have sufficient clearance for the tunnel. It will be necessary to reinstall the press higher

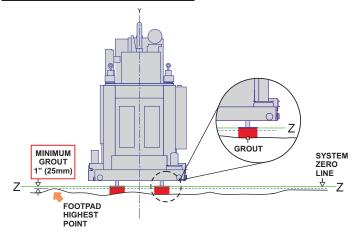
- · Establish the System Zero Line or Z.
- Refer to the dimensional drawings of the various machines for required heights.

FLOOR IS UNEVEN

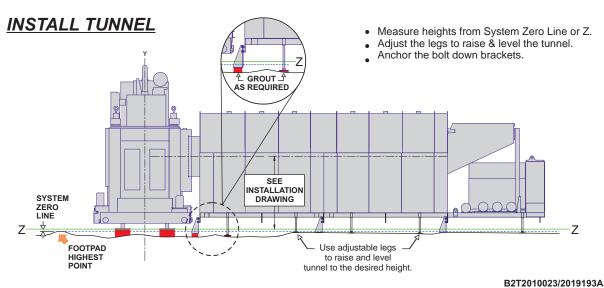


- Establish System Zero Line or Z.
- Find highest point in factory floor where footpads will be located.
- System Zero Line or Z is 1" above highest point.

INSTALL PRESS FIRST



- Shim & level to System Zero Line or Z.
- Grout & anchor all footpads.



BIPCLI02 (Published) Book specs- Dates: 20140226 / 20140226 / 20140226 Lang: ENG01 Applic: PCL

Tips for Connecting Tunnel Units on Site

In most installations, the tunnel is composed of two or more units that you must connect together on site. Use this instruction to help prevent damage.

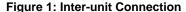
1. Protect the inter-unit seal.

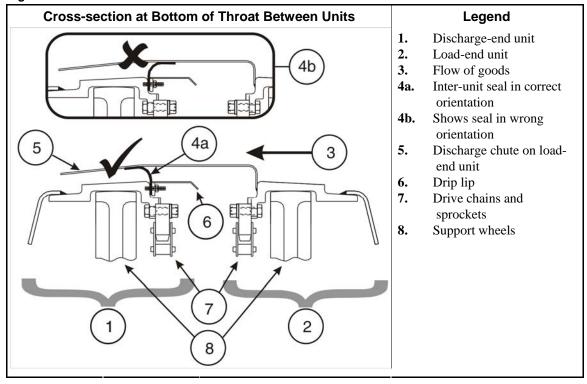
When you connect units, the correct procedure is to establish the final position of the press or extractor, then move the tunnel units into position, from discharge end to load end. Before you move units together, apply petroleum jelly to the outer surface of the discharge chute on the loadend unit and to the surface of the inter-unit seal on the discharge-end unit. Without lubrication, the seal can tear or get pulled so that it is pointing in the wrong direction.

2. Align the units.

Use leveling instruments to make sure that the two units remain level horizontally when you bring the them together. When you start to insert the discharge chute, keep them aligned vertically and horizontally plus or minus 1/4" (6 mm), otherwise you can damage the inter-unit seal. When the adjacent connection flanges on the two units are close together, use the corresponding bolt holes as a guide to align the units precisely. When the flanges are touching and you can put the bolts through both holes with the units level, the units are aligned.

3. Check for correct seal orientation.





See Figure 1. If you had to move the load-end unit out and back in during connection, this can pull the seal to the wrong orientation. Reach into the gap where the discharge chute enters the throat of the other unit. If you feel the seal pointing outward, use a wooden stick with a smooth end to push the seal back to the correct orientation.

4. If water leaks from the inter-unit connection...

It is normal for a small quantity of water to drip from between units. If a large quantity of water comes out from between units, this indicates that the inter-unit seal is damaged. If this occurs after the machine has been in operation for a length of time, the seal may have sustained chemical damage.

It is possible to replace the inter-module seal. However, an easier alternative is to install a 6-rib seal available from the Milnor® Parts department as kit KTWDRIPR04. This seal can usually be installed in about 45 minutes. The 6-rib seal is less effective than the factory seal, but usually provides an acceptable reduction in leaking.

- End of BIPCLI02 -

Parts and Assemblies

3

Covers and Shipping Brackets

3.1

Litho in U.S.A.

Cover Installation 76028 & 76039 G3 Tunnels



Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

The control and the control an		_				
Used in Name Part Number Conscription		Find the consideration assemblies numbers (1	orrect as s are refe I, 2, 3, etc	sembly first, the rred to in the "Us") assigned to con	arts List—Cover Installation in find the needed components. The item lett ed In" column to identify which components by ponents relate the parts list to the illustration.	ers (A, B, C, etc.) assigned to elong to an assembly. The item
A		Used In	Item	Part Number	Description	Comments
Covers for the right side, are the same as the left shown. are the same as the left shown.					REFERENCE ASSEMBLIES	
Covers for the right side. Covers for the same as 6 Covers for the same as 6 Covers for the right side. Covers			AA AB	G66GC003F G66GC003M	7628G3 INSTCOVER ALUM 4M FIRST 7628G3 INSTCOVER ALUM 4M MID	7628G3 FIRST SECTION 7628G3 MID SECTIONS
Covers for the right side, 1 Covers for the left, shown, are the same as the left, shown, are the same as the left, shown.			AC	G66GC003L	7628G3 INSTCOVER ALUM 4M LST	7628G3 LAST SECTION
## G665C0077 7689G3 N8TOVFR AUMU 20 MAJ. 55 AAAB C G665C0077 7689G3 N8TOVFR AUMU 20 MAJ. 55 AAAB C G665C0077 7689G3 N8TOVFR AUMU 20 MAJ. 55 AAAB C G665C0077 7689G3 N8TOVFR AUMU 20 MAJ. 55 BABB C 1 A665C016 ASSY-COVER WINT. 23 80/G4.56 BABB C 1 A665C016 ASSY-COVER WINT. 23 80/G4.56 BAB C 1 A665C017 ASSY-COVER WINT. 23 80/G4.56 BAB C 1 A665C017 ASSY-COVER WINT. 10 60/G4.56 BAB C 1 A665C017 ASSY-COVER WINT. 11 60/G4.56 BAB C 1 A665C017 AS			BA	G65GC007F	7639G3 INSTCOVER ALUM 4M FIRST	7639G3 FIRST SECTION
Covers for the right side, 1 the left, shown. AAABAC 1 AABAC 1 AA	2		BB BC	G65GC007M G65GC007L	7639G3 INSTCOVER ALUM 4M MID 7639G3 INSTCOVER ALUM 4M LAST	7639G3 MID SECTIONS 7639G3 LAST SECTION
Covers for the right side, 1 Covers for the left, shown. Covers for the left, shown.				A65GC016		
Covers for the right side, not shown, are the same as the left, shown.		BA,BB,BC	-	A65GC015	ASSY=COVER VINYL 39.5X54.56	
Covers for the right side, not shown, are the same as the left, shown.		AA,AB BA,BB	7	A65GC017	ASSY=COVER VINYL 23.38X54.56	
Covers for the right side, not shown. Covers for the left, shown.		AA,BA	ო	A65GC019	ASSY=COVER VINYL 19.75X44.12	
Covers for the right side, not shown. are the same as the left, shown.		AC,BC	4	A65GC007	ASSY=COVER ALUM LF 40.97X52.11	
Covers for the right side, not shown.		AC,BC	2	A65GC006	ASSY=COVER ALUM RT 40.97X52.11	
	(3, 4, or 5 per side as required) Covers for the right side, not shown, are the same as the left, shown.		Φ	A65GC018	ASSY=COVER VINYL 11.06X54.56	

Tunnel Feet & Shipping Brackets

1 of 2

76028 & 76039 G3 Tunnels

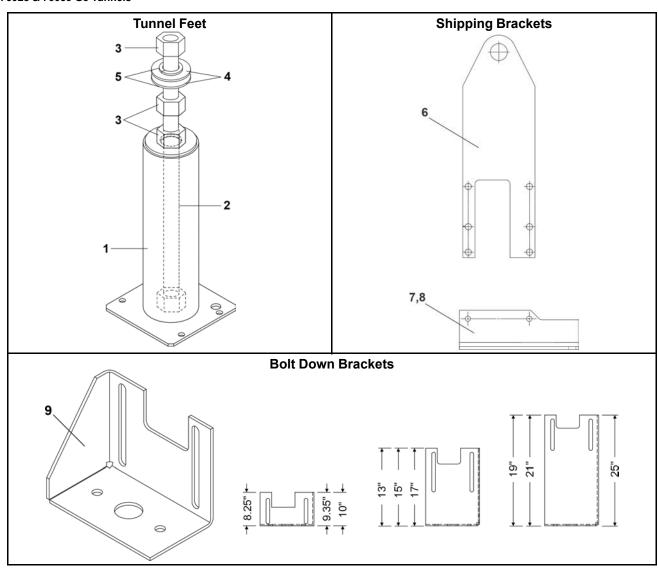


Table 1. Parts List—Tunnel Feet & Shipping Brackets

Find the assembly for your machine and the letter shown in the "Item" column. The components for your machine will show this letter or the word "all" in the "Used In" column. The numbers shown in the "Item" column are those shown in the illustrations. **Description/Nomenclature** Used In Item **Part Number** Comments Components W6 20408 CBW FOOT WLMT 11"-17" FLOOR TO BASE 11'-17" Floor to Base Tunnel Clearance W6 20407 **CBW FOOT WLMT** 17'-24" Floor to Base Tunnel В Clearance 17R125A18K ROD=1.25X-8UNX18.5 ALLTHRD. ZN 2 В 2 17R125A21K STUD 1.25-8UNX21 ALLTHRD/ZN-B7

76028 & 76039 G3 Tunnels

Parts List—Tunnel Feet & Shipping Brackets (cont'd.)

Find the assembly for your machine and the letter shown in the "Item" column. The components for your machine will show this letter or the word "all" in the "Used In" column. The numbers shown in the "Item" column are those shown in the illustrations.								
Used In	Item	Part Number	Description/Nomenclature	Comments				
all	3	15G261	HVHXNUT 1+1/4-8UNC2B ZINC GR2H					
all	4	15U440	FLATWASH(USS STD) 1+1/8" STLHD					
all	5	15U425	LOCKWASHER MEDIUM 1+1/4"ZINC P					
all	6	06 70016B	G3 SHIPPING/LIFTING PLATE					
all	7	06 70016	BOLT DOWN BKT SHIPPING-RIGHT					
all	8	06 70016A	BOLT DOWN BKT SHIPPING-LEFT					
all	9	06 70016S	7639G3 FLOOR MNT BKT SHORT S/S	8.25"				
all	9	06 70016G	FLOOR MNT BKT SHORT 9.35	9.35"				
all	9	06 70016J	FLOOR MNT BKT SS 9.5 LG	10"				
all	9	06 70016C	7639G3 FLOOR MNT BKT LONG 14.6	13"				
all	9	06 70016Z	FLOOR MNT BRKT SS 15.00 LG	15"				
all	9	06 70016W	FLOOR MNT BRKT S/S 17.00 LG	17"				
all	9	06 70016X	FLOOR MNT BRKT S/S 19.00 LG	19"				
all	9	06 70016T	FLOOR MNT BKT SS 21.00 LG	21"				
all	9	06 70016U	FLOOR MNT BKT SS 25.00 LG	25"				

3

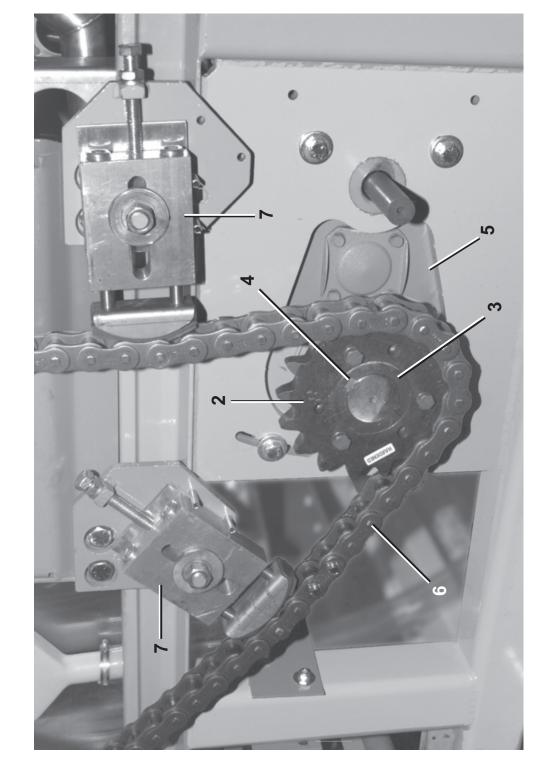
Drive Assemblies

3.2

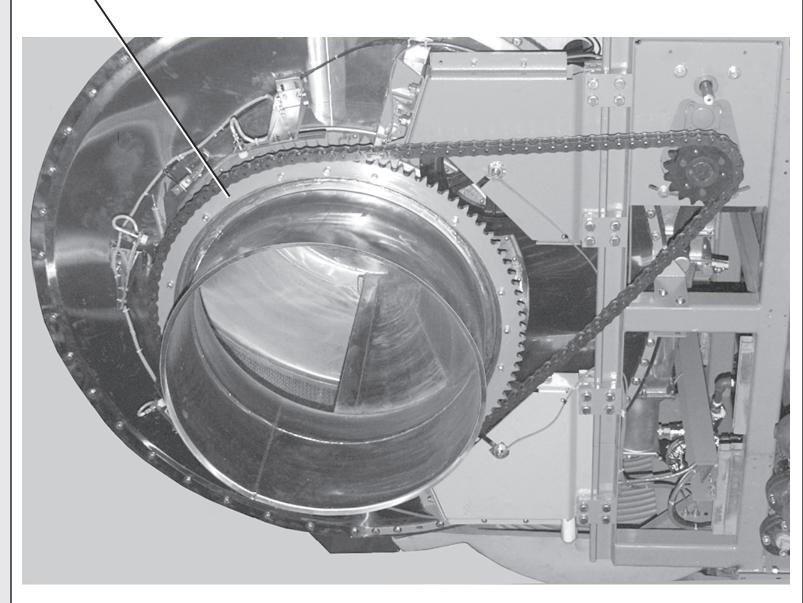
Drive Chart 76028 & 76039 G3 Tunnels



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First and Last sections use one 10Hp motor with a 20Hp reducer per module. Middle sections use two 5Hp motors each with 10Hp reducers. See parts list.

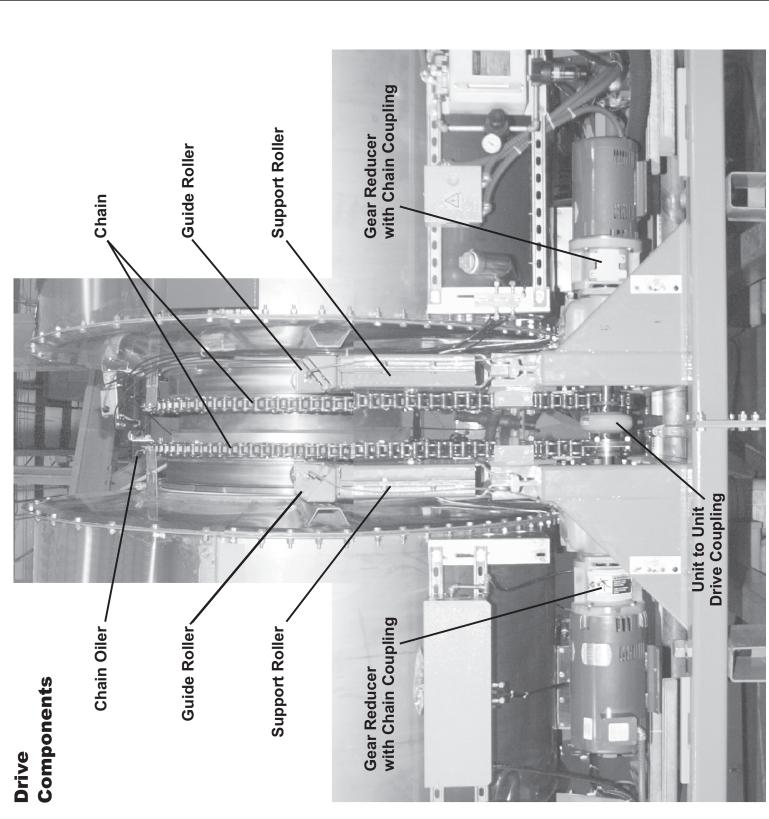


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76028 & 76039 G3 Tunnels **Drive Chart**



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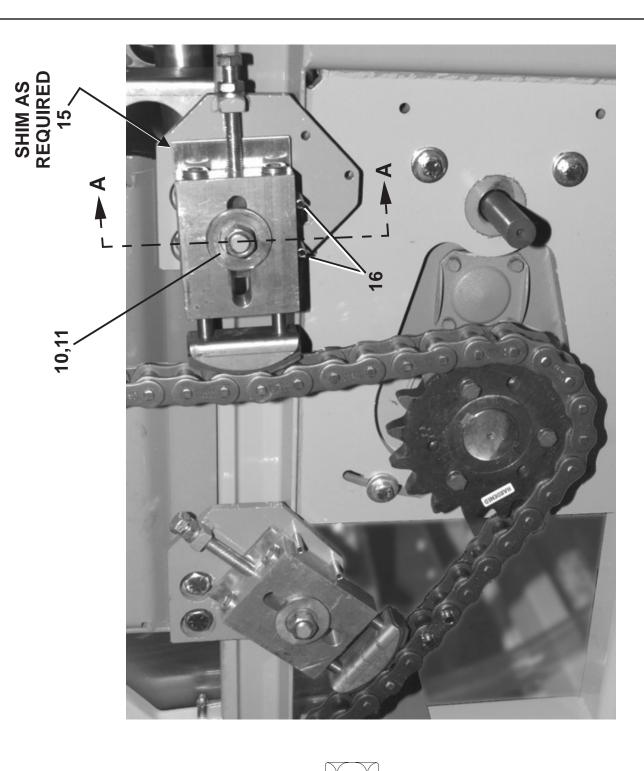
Parts List—Drive ChartFind the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

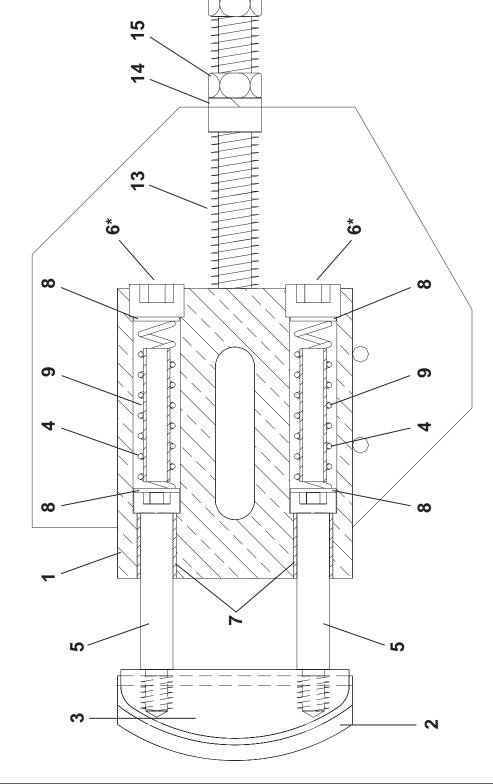
4.0000000	Comments		FIRST & LAST SECTIONS	MIDDLE SECTIONS									
30000	Description	ASSEMBLIES	DRIVECHART 10HP	DRIVECHART 5 HP	COMPONENTS	MACH=7622CBW SPROCKET 120A96	SPRKT 120E17H QD HARDENEDTEETH	2+1/2" BUSH VPUL QD TYPE E	SQMACHKEY 5/8X2+3/4	RED 20HP 24:59:1 3325CF-CBW21 RED 10HP.24 59:1 3325CF-CBW18	ROLLCHAIN RC120HKR 15.75FT	CHAIN TENSIONER ASSY	
N to C	Fart Number		D62 00560	D62 00660		X6 40104	54N120E17H	56Q2KE	15E241	54S029 54S027	54G120HK	A65CH001	
140m			⋖	В		_	2	3	4	5 5	9	7	
1 1 1	Used In					all	all	all	all	∀ 8	all	all	

Chain Tensioner 76028 & 76039 G3 Tunnels



Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400 Note: Do not remove the plugs (item 6) while chain guide
is tensioned against the chain. The spring may jump out.
Loosen the nut (item 11) on the slotted adjustment and
the jacking bolt (items 13,14,15) to loosen chain tension.





SECTION A-A
TYPICAL



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Parts List—Chain Tensioner
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
	Α	A65CH001	CHAIN TENSIONER ASSY	
			COMPONENTS	
all	1	X6 70045	HOUSING=CHAIN GUIDE	
all	2	X6 70046	CHAIN GUIDE	
all	3	06 70047	SUPPORT=CHAIN GUIDE	
all	4	06 70048	SPRG/CH.GUIDE/.105 MUSIC WIRE	
all	5	15C070	HXSOCSTRIPBOLT 5/8"X3X1/2-13	
all	6	5SP0PCEHK	NPT PLUG 3/4 HEXSOCHD ZINC	
all	7	54E019	PLBRZBRG 5/8X3/4X1+1/4EP101220	
all	8	15U200	FLATWASHER(USS STD) 5/16"ZNC P	
all	9	06 70033	SPACER=CHAIN TENSIONER	
all	10	06 70032	WASHER=CHAIN TENSIONER	
all	11	15G240	HXNUT 3/4-10UNC2B SAE ZINC GR2	
all	12	15D125	HXTAPSCR 5/8-11X4CAD-FLTHRD GR	
all	13	15U315	LOKWASHER MEDIUM 5/8 ZINCPL	
all	14	15G236C	HXFINJAMNUT 5/8-11UNC2B ZINC G	
all	15	06 70049	SHIM=CHAIN GUIDE	
all	16	15H113	SPRINGPIN 3/8X2"LG ZINC	

Chain Oiler

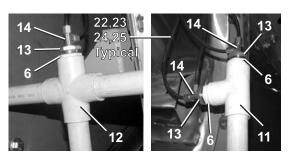
BMP110071/2013102A (1 / 2)

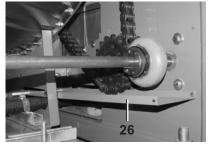
76032, 76028G3 & 76039G3 Tunnels, 92048G4 Tunnels

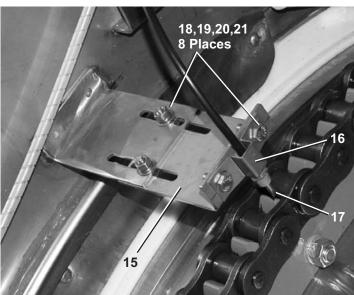


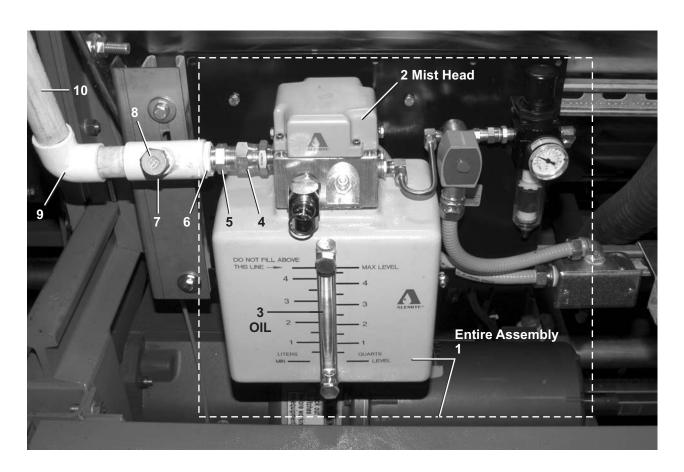
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Parts List—Chain Oiler

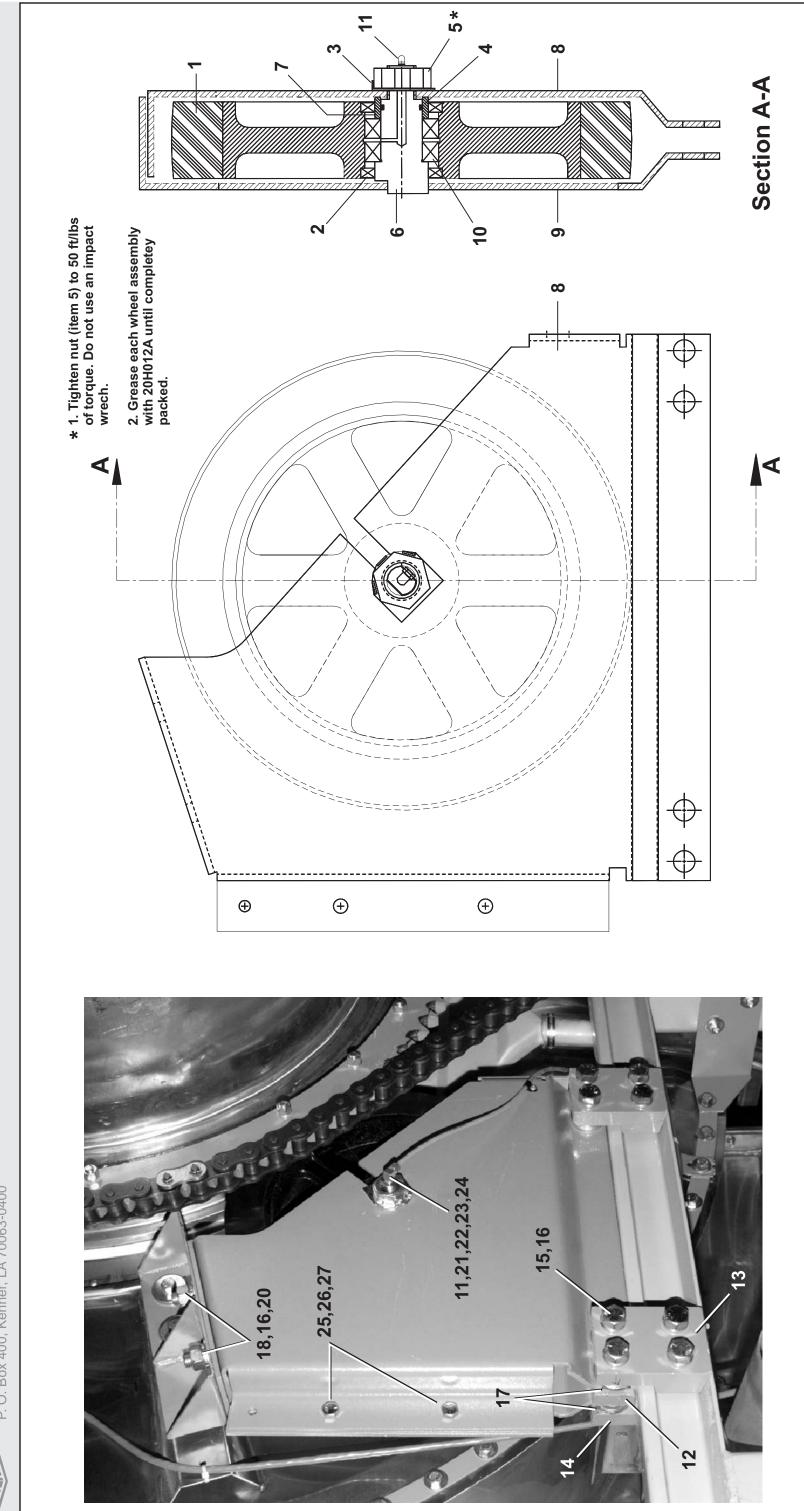
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
	A B	G67CL001 A67CL001	GEN ASSY OILER RESV G3 ASSY OILERRESV G3	76028G3, 76039G3 & 92048G4 TUNNELS
	С			76032 TUNNELS
			COMPONENTS	
ABC	1	27E790E	ALEMITE OILMIST SYSTEM#3943BC	
ABC	2	27E790F	REPAIR PART-ALEMITE MIST HEAD	
all	3	20H000A	MILNOR CHAIN LUBRICANT	
all	4	52ZC0PS004	TUBEFITMALESW 3/4"#1404-12-12	
all	5	52ZC0PS003	TUBEFITMALECON 3/4"#2404-12-12	
all	6	5KC1AP4D0P	SOKADAPTER 1"SX3/4"FPT PVC S40	
all	7	5K1AP4A0K	TEE 1"SX1"SX1/2"FP PVC S40	
all	8	5SP0KDEHK	NPT PLUG 1/2 HXCTRSNK GALSTL	
all	9	5KL1AP4A	SOK ELBOW 90DEG 1" PVC SCH40	
all	10	5P1AP4EN	1" PIPE PVC SK40 20RML	
all	11	5K1AP8A	SOKTEE 1" PVC SCH40	
all	12	5KX1AP4	SOK CROSS 1" PVC SK40	
all	13	5SB0P0CNFA	NPTHEXBUSH 3/4X1/8GALV150#CORD	
all	14	53A043S	TEE=TUBEXMPXTUBE 1/4"#B71A-4B	
all	15	06 40199	7626 BRKT OILER BRUSH	
all	16	06 20187	BRKT BRUSH HOLDER OILER 1/MD	
all	17	27E790D	SPRAYFITT=ALEMITE #381288-8	
all	18	15K039	HXCAPSCR 1/4-20UNC2AX3/4 GR5 Z	
all	19	15G165	HXNUT 1/4-20UNC2BSAE ZC GR2	
all	20	15U180	LOCKWASHER MEDIUM 1/4 ZINCPL	
all	21	15U185	FLATWASHER(USS STD) 1/4" ZNC P	
all	22	53A509	TUBE INSERT 5/16"OD X .53"LG.	
all	23	53A059	SLEEVE 1/4"BRASS PH#60C-4	
all	24	53A059A	NUT 1/4"BR.HOLYOKE AND #61A-4	
all	25	60E004TE	1/4"OD X.170"ID NYL(BLK)TUBING	

Support Roller Assembly 76028 & 76039 G3 Tunnels, 92048 G4 Tunnels



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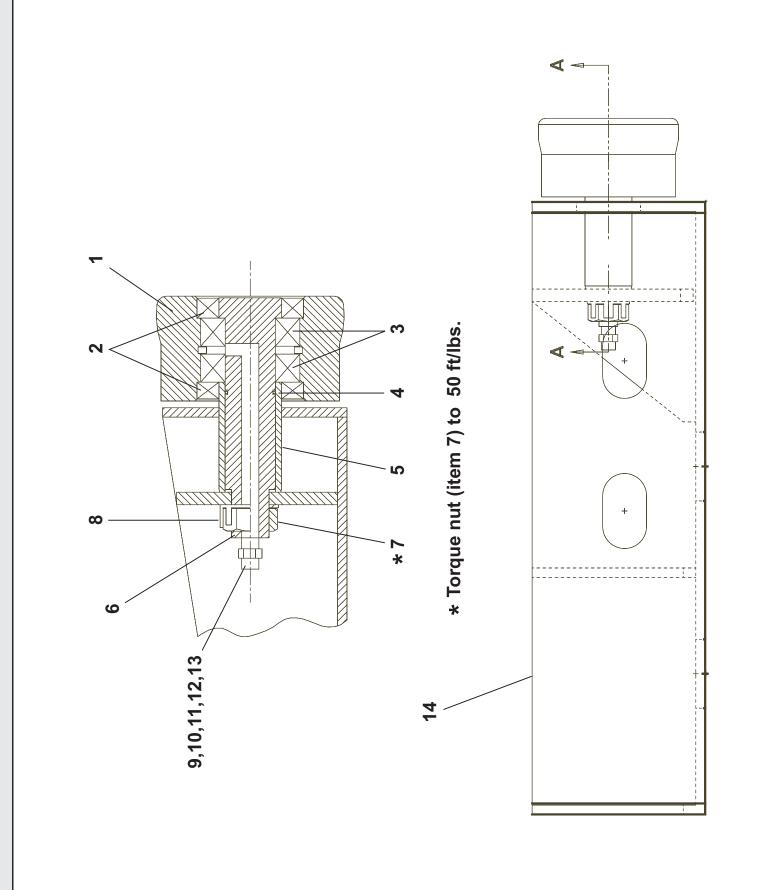
Parts List—Support Koller Assembly	
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to	
assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item	<u> </u>
numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.	

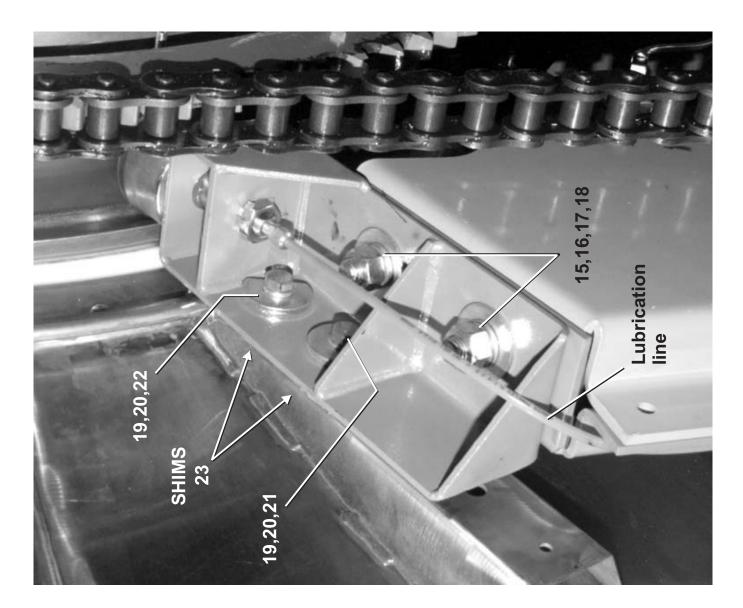
Find the	e correct as	Part:	Parts List—Support Roller Assembly st. then find the needed components. The item letter	rs (A. B. C. etc.) assigned to		al bool	Hem .	Pal
assemb	lies are refe	Frred to in the "U	Ised In" column to identify which components bel	long to an assembly. The item	•	0360		ait idailing
number	's (1, 2, 3, etc	c.) assigned to cor	numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.			all	22	53A059A
Used In	n Item	Part Number	Description	Comments		all	23	53A500
			ASSEMBLIES			all	24	53A501
	<	VEARDOOD	E POCENTIES AND TENSIONED I	763863 763063		all	25	15G230
	с Ф	A64SR002R		7628G3, 7639G3		all	26	15K151
	<i>ن</i> د	A64SR002AL		7628G3, 7639G3		all	27	15U300
	Э Ш	A64SR00ZBL A63SR002						
	ட	A63SR001	9248 SPPT RLLR ASSY RT	9248G4				
			COMPONENTS					
<u></u>	_	06 40040B	ROLLER 18X3 - 2" URETHANE					
<u>a</u>	2	24S055	SEAL 2.09X3.189X3/8 SS BUNA					
<u>a</u>	က	06 40043	LOCKING WASHER 18X3 ROLLER					
ਾ 71	4	60C128	ORING 1+3/8IDX1/8CS BUNA70#220					
<u></u>	2	15G251	HEXJAMNUT 1+1/8-7UNC2 ZNC GR2					
₩ W	9	X6 40041	MACH=SHAFT 18 X 3 ROLLER					
<u>m</u>	7	06 40042	COLLAR=18X3 ROLLER					
ABCD	∞ (WHEEL					
ABCD EF	∞ ∞ ∘	06 70013A 06 30055	PLATE WHEEL SUPPORT INNER RT 9248 SPPT RLLR BRKT INNER RT					
L U	0		3240 OPP I REEN BRAT INNER ET					
ABCD	တတ	06 70013F	PLATE WHEEL SUPPORT OUTER LF PLATE WHEEL SLIPPORT OLITER RT					
) 出 出	၈၈၈	06 30054 06 30054A	9248 SPPT RLLR BRKT OUT RT 9248 SPPT RLLR BRKT OUT LF					
all a	10	54AV41201	BRG TM#LM501349 ASSY 902B6 1BX					
<u></u>	7	53A031B	BODY-EL90MALE.25X1/8 #269C-42B					
<u>m</u>	12	06 70013H	SPACER=SUPPORT ROLLER					
a	13	06 70030	CLAMP SUPPORT ROLLER OUTER					
a B	4	06 70030A	CLAMP SUPPORT ROLLER INNER					
<u>m</u>	15	15K235D	HXTAPSCR 3/4-10UNC2A X 4+1/2					
a B	16	15U340	LOCKWASH MEDIUM 3/4 ZINCPL					
a B	17	15U320P	FLATWASHER(USS STD) 3/4" ZNC P					
a	18	15K228B	HEXCAPSCR 3/4-10 X 1+1/2 GR 5/					
a a	20	15G240	HXNUT 3/4-10UNC2B SAE ZINC GR2					
a	21	60E004TE	1/4"OD X.170"ID NYL(BLK)TUBING					

Guide Roller Assembly 76028 & 76039 G3 Tunnels, 92048G4 Tunnels



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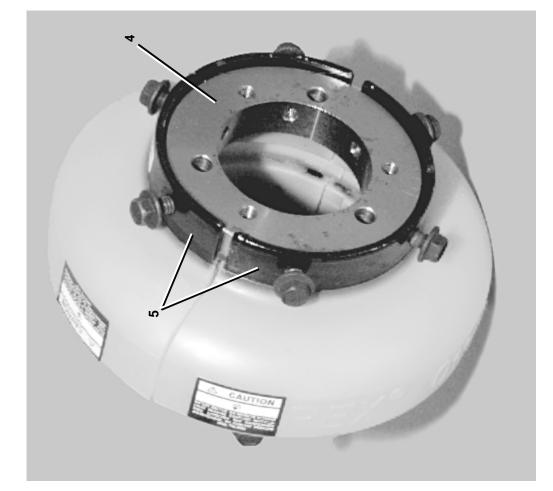
Parts List—Guide Roller Assembly
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
	A B C D	A64GR002 A64GR003 AGR63001 AGR63001A	7639G3 GUIDE ROLLER ASSY RIGHT 7639G3 GUIDE ROLLER ASSY LEFT 9248 GUIDE ROLLER RIGHT ASSY 9248 GUIDE ROLLER LEFT ASSY	7628/7639G3 RIGHT 7628/7639G3 LEFT 9248G4 RIGHT 9248G4 LEFT
			COMPONENTS	
all	1	06 40046	ROLLER=GUIDE 3.78 WIDE TRACK	
all	2	24S033A	SEAL 1.25X2.125X.375 JM# 19653	
all	3	54AV25401	BRG TIMK#L44643 ASSY 902A8 1BX	
all	4	60C120	ORING 7/8IDX1/16CS BUNA70 #020	
all	5	06 20068A	COLLAR=7622 CBW WHEEL SUPT	
all	6	06 20020B	SHAFT=7622 CBW GUIDE ROLLER	
all	7	15G245	HXFINJAMNUT 3/4-10UNC2 SS18-8	
all	8	06 20070	LOCKING WASHER ROLLER SHAFT	
all	9	53A031B	BODY-EL90MALE.25X1/8 #269C-42B	
all	10	53A059A	NUT 1/4"BR.HOLYOKE AND #61A-4	
all	11	53A500	SLEEVE DELRIN 1/4"OD#60PT-4	
all	12	53A501	TUBE INSERT .163"OD #63PT-4-40	
all	13	20H012	ALVANIA#71125/EPLF2 35# PAIL	
A B C D	14 14 14 14	W6 70014G W6 70014L W6 30119 W6 30119A	WELD GUIDE ROLLER MNT MID RT WELD GUIDE ROLLER MNT MID LF GUIDE RLLR SPPT BRKT RT WLMT GUIDE RLLR SPPT BRKT LF WLMT	
all	15	15K232A	HEXCAPSCR 3/4-10X2 GR8 ZINC	
all	16	15U320P	FLATWASHER(USS STD) 3/4" ZNC P	
all	17	15U340	LOCKWASH MEDIUM 3/4 ZINCPL	
all	18	15G240	HXNUT 3/4-10UNC2B SAE ZINC GR2	
all	19	15K162	HXCAPSCR 1/2-13UNC2AX1.5 GR5 P	
all	20	15U286	FLATWASHER 2"0DX17/32"IDX1/4"	
all	21	15U300	LOKWASHER REGULAR 1/2 ZINC PLT	
all	22	02 11603A	WASHER DBLR=2" W/CUTOFF SIDE	
all all all	23A 23B 23C	06 20327A 06 20327B 06 20327C	SPACER 14 GA STN/STL SPACER 16 GA STN/STL SPACER 18 GA STN/STL	

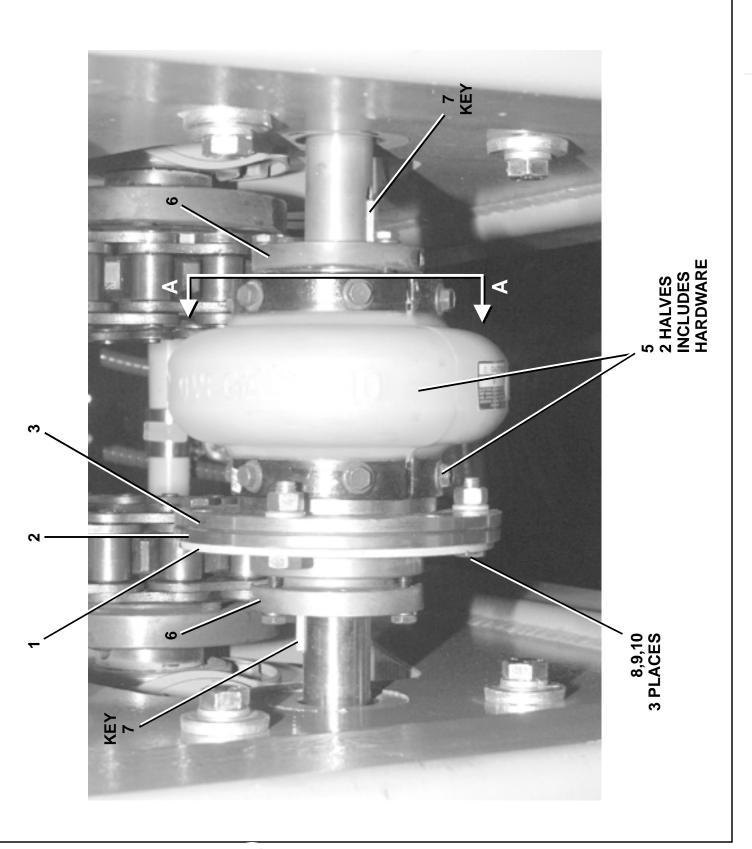
Unit to Unit Drive Coupling 76028 & 76039 G3 Tunnel



Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400



View A-A





Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

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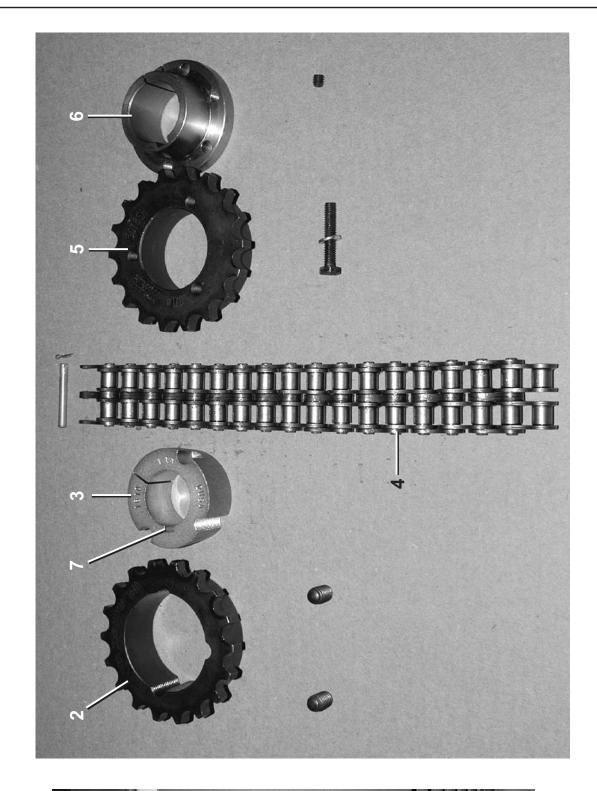
Parts List—Unit to Unit Drive Coupling
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

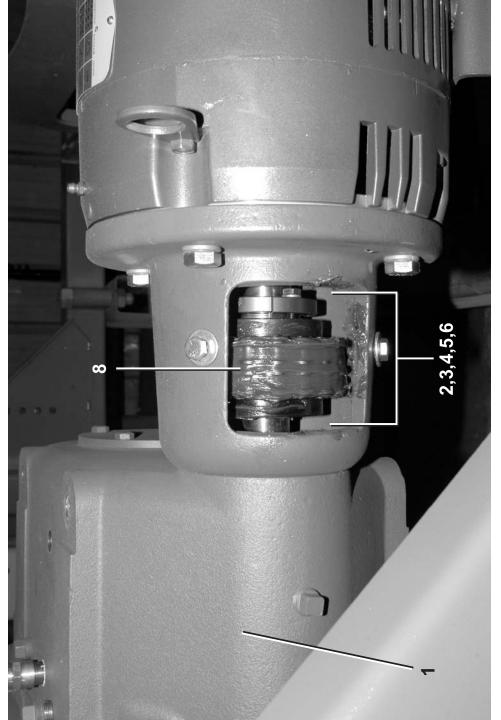
Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
	Α	A64DB003	ASY=UNIT/UNIT DRIVEBASE CONN	
			COMPONENTS	
all	1	06 40106A	COUPLING ADJUST WASHER PLT	
all	2	X6 40106	DRIVE COUPLING ADJUST SIDE	
all	3	X6 40107	DRIVE COUPLING FIXED SIDE	
all	4	54J227A	HUB,FLEX COUPLING TUN +TILTS	
all	5	54J227	FLEXCPLG REX#E10 (EA=2 HALVES)	
all	6	56Q1ESDS	1+1/4" BUSH VPUL QD TYPE SDS	
all	7	15E210	SQMACHKEY 1/4X2 NOTAPER-NOHEAD	
all	8	15K100	HEXCAPSCR 3/8-16X1+1/4 SS18-8	
all	9	15U260	LOCKWASHER MEDIUM 3/8 SS18-8	
all	10	15G206	HEXNUT 3/8-16 UNC2 SS 18-8	

Gear Reducer with Chain Coupling 76028 & 76039 G3 , 9248 G4 Tunnels



Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400





For detailed instructions of replacing the drive chain coupling, see document BIPCLM01, found within this manual.



Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

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Parts List—Gear Reducer with Chain Coupling
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
	A B C	A67DB001 A67DB002 A67DB003	20HP REDUCER/10HP MOTOR ASSY 10HP REDUCER/05HP MOTOR ASSY 10HP REDUCER/06HP MOTOR ASSY	FIRST & LAST MODULES MIDDLE MODULES 9248
			COMPONENTS	
A BC	1	54S029 54S027	MILNOR, 24.59:1 210TC 23HP MILNOR, 24.59:1 180TC,12.5HP	
all	2	27E5511D	FLEX.COUP.=5018TBF COUPLING	
all	3	27E5511E	1610 1 1/4" BORE BUSHING	
all	4	27E5511C	FLEX.COUPCHAIN=5018CHN	
all	5	27E5511A	QD-FLEX.COUP.=5018SH 1+3/8MAX.	
A BC	6 6	56Q1GSH 56Q1CSH	1+3/8" BUSH VPUL QD TYPE SH 1+1/8" BUSH VPUL QD TYPE SH	
all	7	15E197	1/4X1/4X1SQMACHKEY N0 TAPR/HD	
all	8	20H011CG	ALVANIA CG1 GREASE EA=1 TUBE	

Instructions for Replacing G3 Drive Chain Couplings: Retrofit Kits KTG3SCR001 and KTG3SCR002

Milnor engineers recently re-engineered the motor-to-gear reducer drive chain couplings to ensure longer life and greater reliability for these components. These new couplings can be easily retrofitted to existing G3 Continuous Batch Washers as detailed below.



WARNING 1: Entangle and Crush Hazard—Gears and chains can entangle and crush body parts

- Lock OFF and tag out power at the wall disconnect before servicing.
- 1. Place the key in shaft. Check for proper fit. Key must fit snugly. If not, replace the key or bushing.
- 2. Slide the taper bushing on the motor shaft (Figure 1).
- 3. Position taper bushing on motor shaft as follows:
 - For 10 horsepower motors, place the bushing flush with motor shaft end (Figure 2).
 - For 5 horsepower motors, place the bushing slightly back from motor shaft end so that 1/8" (3 mm) of the motor shaft extends beyond the bushing.
- 4. Apply Loctite® 242 (or equivalent) to set screw (Figure 3). Tighten set screw (Figure 4).
- 5. Prevent the shaft key from moving by notching the edges of the keyway (Figure 5).
- 6. Install the motor sprocket on the bushing (Figure 6).
- 7. Gradually tighten the bushing bolts in an alternating pattern until the sprocket seats on the bushing. Repeat the tightening pattern at least three times. Torque bushing bolts to 108 inch-pounds (1.25 kg/cm) (Figure 7). Use a pipe wrench on the bushing to prevent the sprocket from turning during the tightening procedure.
- 8. Install the gear reducer sprocket. Position sprocket on shaft but do not tighten set screw. The final position is determined when the double drive chain is installed (Figure 8).
- 9. Place wooden boards on the machine frame to support the motor as shown in Figure 9. Slide motor into place and bolt up.
- 10. Install a wire wrap or wire leader through the first chain link pair (Figure 10). Note the three chain plates, and master link assembly.
- 11. Align motor sprocket teeth with the gear reducer sprocket teeth so that the chain links will fit between both sets of teeth.
- 12. Thread chain into sprockets (Figure 11). Use the leader to help feed chain around sprockets.
- 13. Ensure that the double drive chain is perfectly seated on both sprockets by adjusting the position of gear reducer sprockets. Tighten the set screw after determining the optimum gear reducer sprocket position (Figure 13).
- 14. Cut off leader and partially insert the master link (Figure 14).
- 15. Install the center plates between the adjoining links (Figure 15).
- 16. Push the master link through the center plates (Figure 16). Install end plate and lock clip.

Figure 1: Sliding taper bushing on motor sprocket

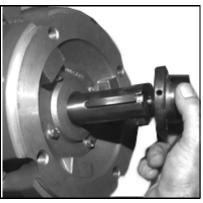


Figure 3: Applying Loctite® to taper bushing set screw

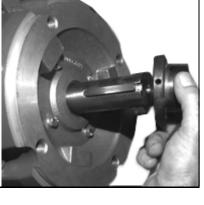


Figure 4: Securing taper bushing

Figure 2: Aligning taper bushing

with motor drive shaft (10 HP motor installation shown)



Figure 5: Notch motor shaft keyway

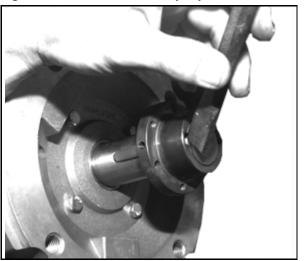


Figure 6: Fitting motor sprocket to bushing

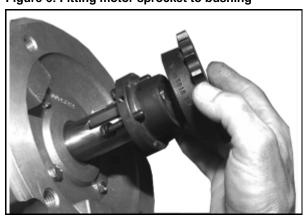


Figure 7: Tightening the motor sprocket



Figure 8: Positioning the gear reducer sprocket

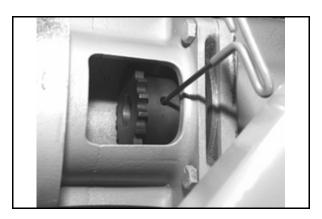


Figure 9: Sliding motor into gear reducer



Figure 10: Attaching wire wrap leader to drive chain for threading



Figure 11: Starting chain into sprockets



Figure 12: Feeding chain through sprockets

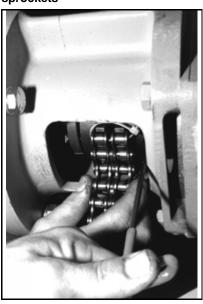


Figure 13: Double drive chain seated on sprockets

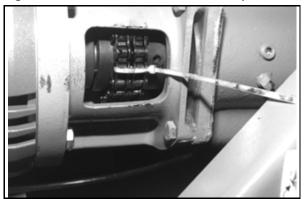


Figure 14: Partially installed master link

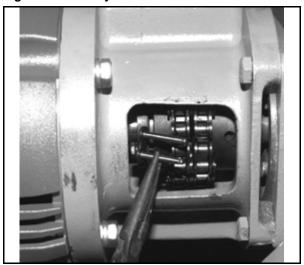


Figure 15: Installing center plates

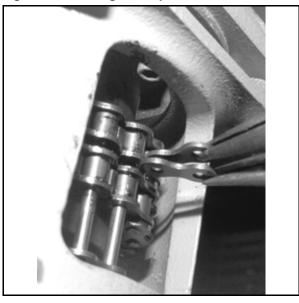
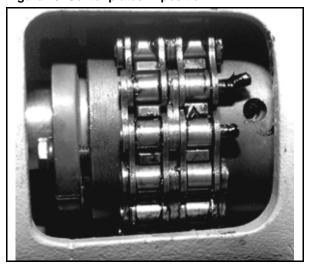


Figure 16: Center plates in position



— End of BIPCLM01 —

BIPCLM02 (Published) Book specs- Dates: 20020430 / 20020430 / 20020501 Lang: ENG01 Applic: PCL

Drive Train Service

This document covers two major areas of drive train service: drive chain adjustment and support roller replacement.

1. Drive Chains

Each section is equipped with roller chains which operate outside the wet area of the machine. If properly maintained, chains will have a long life in continuous use. Check chains periodically for proper chain tension and lubrication as called for in the preventive maintenance checklist.

As the tunnel reverses, one half of the chain tightens, while the other half goes slack. A pair of chain tensioners are fitted to each chain to keep slack at a minimum during reversals (Figure 2). All chain measurements are taken from the slack side. An Oiler and Drive Test Panel (Figure 1, located on the electric box door under the load chute), is provided with a switch that allows manual actuation of the drive motors, so slack can be measured at each tensioner in turn.

The key switch on this panel allows the chain oiler to be checked and adjusted. See "ABOUT THE OIL MIST SYSTEM...MSSMD401BE" in the Table of Contents for additional information.

Note 1: All chains must have the same amount of tension. If a chain is tighter than an adjacent chain, it will drive the adjacent cylinder and could lead to premature failure of chains, support rollers, or gear reducers.

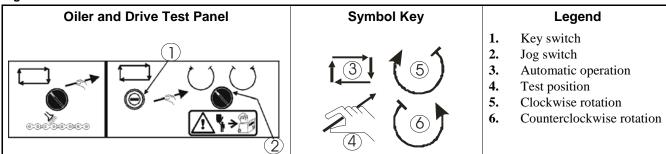
1.1. Preparations for Testing Chain Tension



WARNING 1: Crush and Entrap Hazards—Guards, covers, and panels—Operating the machine with any guard, cover, or panel removed exposes moving components.

• Lock out and tag out power at the main machine disconnect before reaching into the cylinder.

Figure 1: Manual Chain Controls



- 1.2. **Chain Tension Testing Procedure**—Follow instructions carefully to prevent the tunnel washer from starting while testing or adjusting chain tension. At the Mentor[™] console, provide power to the drive test system by turning console power ON and tunnel power ON. Do not start rotation.
 - 1. At the Oiler and Drive Test Panel, disable Mentor control of the drive motors and prevent inadvertent manual drive motor actuation as follows:
 - 2. Turn key switch to the ot position. This disables the drive motor contactors, preventing personnel from starting the machine from the MentorTM console during testing or adjustment.
 - 3. Turn the rotation switch momentarily to the () position.
 - 4. Lock out and tag out power at the wall disconnect.

- 5. Measure the distance between the chain guide and the chain guide housing at the slack side of the chain (Figure 2). This span should measure 3/4" (19) 1" (25).
- 6. Restore power to machine.
- 7. Turn the rotation switch momentarily to the () position.
- 8. Repeat steps 4 and 5 above.
- 9. If both measurements are between 3/4" (19) 1" (25):
 - Chain tension is within specifications.
 - Check chain oiler nozzle function and aim. See "ABOUT THE OIL MIST SYSTEM."
- 10. If one (or both) measurements are greater than 3/4" (19) 1" (25):
 - Chain tension is not within specifications.
 - See "Adjusting Chain Tension" below.

Figure 2: Chain Tensioner Assembly

Measuring the distance between chain guide and housing Tensioner Fastener and Adjusting Bolt Legend 1. Chain guide 2. 3/4" (19) - 1" (25) 3. Chain guide housing 4. Chain tensioner nut 5. Adjustment bolt

2. Adjusting Chain Tension

After determining that chain slack exceeds specifications:

- 1. Lock out and tag out power at the wall disconnect.
- 2. Loosen the chain tensioner nuts, back out the adjusting bolts and slide both tensioners away from chain (Figure 2).
- 3. Remove coupling flange bolts (Figure 4).
- 4. Loosen the four gear reducer mounting bolts (Figure 3). This frees the gear reducer to pivot about the coupling shaft.
- 5. Insert a lever between the coupling and sprocket shaft (Figure 3). Carefully pry between these shafts to adjust chain slack to between 3/4" (19) 1" (25).
- 6. Temporarily tighten one of the gear reducer mounting bolts to hold the reducer in place.

- 7. Recheck chain tension, then tighten the rest of the gear reducer mounting bolts.
- 8. Locate the Top Dead Center bolt on the large cylinder sprocket (Figure 5). This is the only cap head bolt on the sprocket and is usually installed under a target.
- 9. Rotate cylinder as necessary to align the Top Dead Center bolt with the Top Dead Center bolt on the adjacent sprocket. If adjusting an end chain in an multi-section unit, align the Top Dead Center bolt on the other end of the unit with the Top Dead Center bolt on the adjacent unit.
- 10. Reinstall flange coupling bolts (Figure 4).
- 11. Reinstall chain tensioners. Set guide-to-housing clearance for 3/4"-1" (Figure 2).

Figure 3: Checking Chain Tension

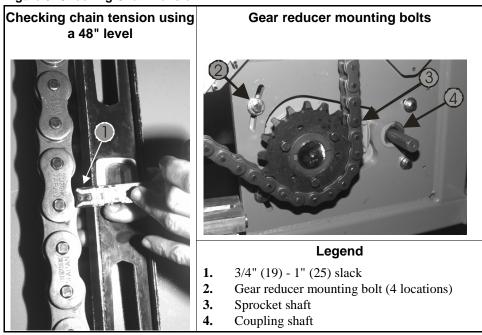


Figure 4: Coupling Flange Bolts

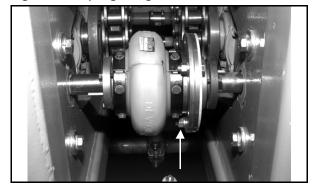


Figure 5: Top Dead Center Bolt



3. Replacing a Support Roller Assembly

Note 2: Support roller assemblies weigh approximately 110 pounds (43 Kg). Use at least two technicians and/or suitable lifting aids (forklifts or chain hoists) to lift and install assemblies.

The support roller assemblies on every batch washer are factory set for correct alignment and weight distribution. With proper lubrication, these components should provide long service life under continuous use. The following procedure requires at least two technicians and/or suitable lifting aids (forklifts or chain hoists) to remove and install assembly. To replace support roller assembly:

- 1. Loosen the drive chain (see "Adjusting Chain Tension").
- 2. Remove drip tray and drain. Use a hydraulic jack under the cylinder (shown in Figure 6) and raise the cylinder until it is suspended just above the rollers. The rollers should turn freely.
- 3. Remove the grease fitting attached to the center of the roller and secure it out of the way.
- 4. Remove the clamp-to-rail fasteners (Figure 6).
- 5. After taking appropriate weight precautions, slide assembly off the rail.
- 6. Remove clamp-to-plate fasteners from the old support roller plate after carefully noting the number of alignment flat washers used between the clamps and each side of the support roller plate (Figure 6). These alignment flat washers determine where the wheel tracks on the cylinder and must be reinstalled exactly as removed. See "Support Roller Assembly...BMP000030," in this manual, for additional information.
- 7. Install the grease fitting on the roller. Slowly lower the cylinder and remove the jack. Check that the cylinder makes contact with the roller.
- 8. Tighten chain to specifications (see "Adjusting Chain Tension").
- 9. After installation is complete, run the batch washer and observe the rollers as the cylinder rotates (Figure 7). The rollers should not rub the sides of the support track, the shell front, or drip tray. If rubbing occurs, then add or subtract alignment flat washers between the clamps and wheel support plate, as necessary.
- 10. It is not necessary to lubricate the new support rollers after installation. They were prelubricated at the factory. However, after one week of operation they should be re-lubricated as explained in "PREVENTIVE MAINTENANCE FOR CONTINUOUS BATCH WASHERS." Check all bolts for tightness.

Figure 6: Support Roller Assembly Installation

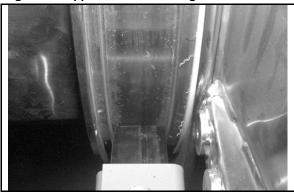
Jacking up cylinder



Legend

- 1. Support roller plate
- **2.** Alignment flat washer
- **3.** Clamp-to-plate fasteners
- **4.** Clamp-to-rail fasteners

Figure 7: Support Wheel Tracking



- End of BIPCLM02 -

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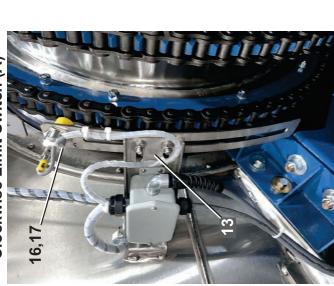
Proximity Switch & Target Settings 76028 & 76039 G3 Tunnels

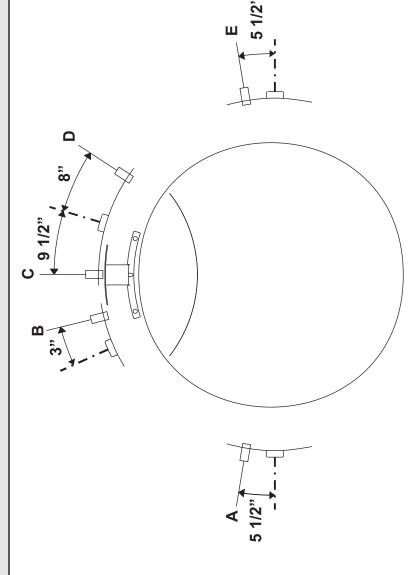


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Clockwise Limit Switch (A)

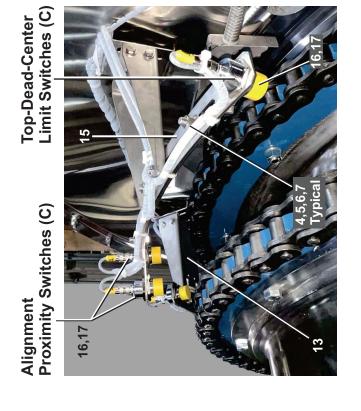


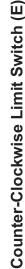


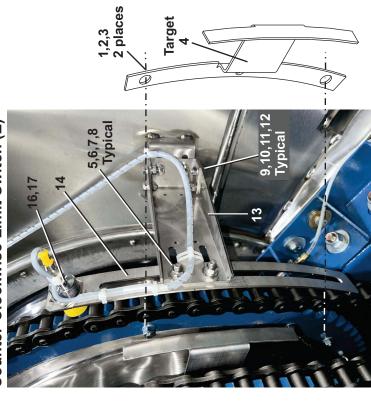
Proximity Switch Settings:

The shell bracket is welded to the shell. The holding bracket is bolted to the shell bracket and holds the proximity switch adjustment bracket. All of the switch settings above reference the center line of their shell bracket.

- A) Clockwise Limit Switch is set approximately 5-1/2" above the center line of the bracket.
- B) Safety Switch is 3-1/2" above the center line of the bracket.
- C) Alignment Proximity Switches are 9-1/2" to the left of the center of the bracket.
- D) Top-Dead-Center Switch is 8" to the right of the bracket.
- E) Counter Clockwise Limit Switch is set approximately 5-1/2" above the centerline of the bracket.







Proximity Switch & Target Settings 76028 & 76039 G3 Tunnels

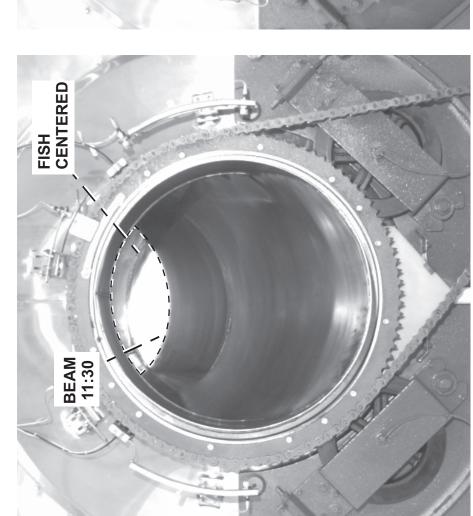


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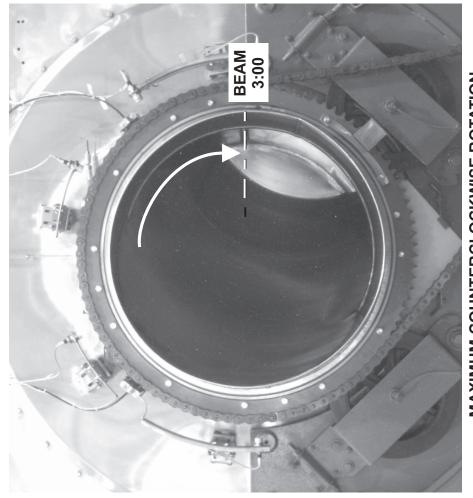
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(NOTE: PHOTOS OF G2 WELDED TUNNEL, NOT G3 TUNNEL)

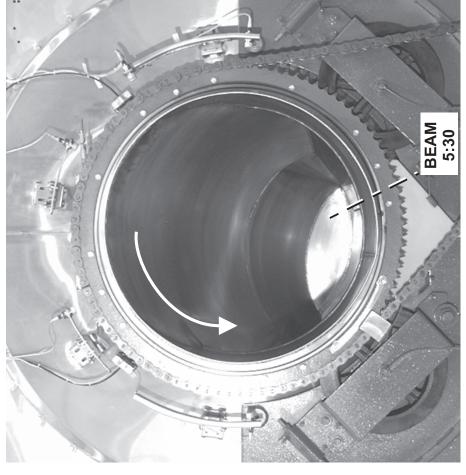
ALL POSITIONS ARE VIEWED FROM REAR (DISCHARGE END)



TOP DEAD CENTER (11:30 POSITION)



MAXIMUM COUNTERCLOCKWISE ROTATION (3:00 POSITION)



MAXIMUM CLOCKWISE ROTATION (5:30 POSITION)

Proximity Switch & Target Settings

BMP000034/2025183B (Sheet 3 of 3)

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			REFERENCE ASSEMBLIES	
	⋖	G64PS002	PROX SW&TARGET INST EXIT G2	
	Δ	G64PS003	ALIGNMENT SWITCH INST 1ST SECT	
	O	G64PS003A	ALIGNMENT SWITCH INST MIDSECT	
all	_	15K173A	HXCAPSCR 1/2-13UNC2AX1.75 GR5	
all	7	15U300	LOKWASHER REGULAR 1/2 ZINC PLT	
all	က	15G230	HXNUT 1/2-13UNC2B SAE ZINC GR2	
all	4	06 20619	TARGET:ENTRY&EXIT PROX SW II	
all	2	15K095	HXCPSCR 3/8-16UNC2AX1 GR5 ZINC	
all	9	15U255	LOCKWASHER MEDIUM 3/8 ZINCPL	
all	7	15G205	HXNUT 3/8-16UNC2B ZINC GR2	
all	00	15U245	FLTWASH 3/8 STD COMM 18-8 SS	
all	6	15K055	SOKCAPSCR 5/16-18X3/4 SS18-8	
all	10	15G186	HEXNUT 5/16-18UNC2 SS18-8	
all	7	15U200S	FLATWASHER US STD 5/16 SS18-8	
all	12	15U205	LOCKWASHER MEDIUM 5/16" 18-8SS	
all	13	06 40149	PROX SWITCH LATERAL ADJUSTER	
all	4	06 20644	PROX SW MTG RING-EXIT END	
all	15	06 20644A	PROX SW BRKT=TIMING	
all	16	09RPS30ADU	PRXSW.QK CONN.30M NO-DC UNSHLD	
all	17	09RPSDC003	CONN.STR FEMALE DC 3A 300V 3M RK4T-3	

SETTING ROTATION LIMIT SWITCH POSITIONS ON 76028 AND 76039 TUNNEL WASHERS

Four limit switches control tunnel cylinder rotation angle and additional switches monitor the rotational alignment of adjoining tunnel units. Slotted switch mounting brackets permit adjusting the angular position of each switch. However, fixed switch locations have been established for the models covered by this instruction and it is merely necessary to assure that the switches are located at these positions. These models use an inverter with a controlled deceleration time, which substantially eliminates variations in cylinder coast times due to varing load sizes and other factors.

A DANGER A



ENTANGLE AND SEVER HAZARDS—Contact with moving components normally isolated by guards, covers, and panels, can entangle and crush your limbs. These components move automatically. Even with power off, the tunnel cylinder can rotate by gravity.

- Do not service machine unless qualified and authorized.
- Lock off and tag out power at the main machine disconnect before servicing.
- **☞ Immobilize the cylinder (see MSSM0921AE in the reference manual).**

NOTE: These switches have the same angular relationship as those on 76032 tunnel models (covered by MSSMD410AE). All models share the same rotation control circuitry.

When Switch Positions Must be Checked—Switches are properly positioned at the factory and should not need to be adjusted in the field unless symptoms indicate an improper rotation angle. Symptoms include portions of separate loads becoming intermixed in the tunnel and/or a large volume of water splashing out of the discharge end during transfer. Verify that switches are located in the positions specified herein. If resetting the switch positions does not correct the problem, contact the factory.

Switch Function and Identification—On these models, all four rotation-control switches and one alignment-monitoring switch are operated by the same target. Each additional alignment switch has its own target. The *clockwise limit switch* (RPX1) and *counterclockwise limit switch* (RPX2) control the angle of rotation of the cylinders during reversals. The *transfer limit switch* (RPX4) controls the angle of rotation during transfer. The *safety limit switch* (RPX3) is a backup to the *transfer limit switch*. Should the Miltron controller detect any of these switches operating out of sequence, it will immediately stop tunnel rotation and display an error message.

Additional limit switches (one per tunnel unit) are furnished on these models to ensure all units are turning synchronously. Two of these switches (RPX5 and RPX6) are installed at the same location (between the same two units) as the rotational limit switches. One additional switch is installed at every other location where units mate together. Since the alignment switches function in series, all such switches (and their targets) must be located at the same angular position so that all inputs are made at the same time. Should the Miltron controller detect a misalignment between units, it will immediately stop tunnel rotation and display an error message.

FIGURE 1, next page, identifies all limit switches.

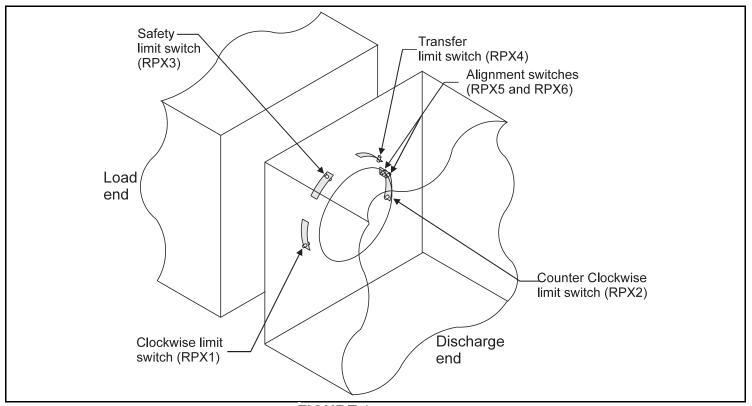


FIGURE 1 (MSSMD446AE)
Switch Locations

Adjusting Switch Positions

—Switches are mounted on slotted brackets. Move the slotted bracket on its support bracket to achieve the specified switch position, as shown in FIG-URES 2 through 5. Make certain that switches, switch wires and brackets are secure and cannot become entangled when the cylinder is turning.

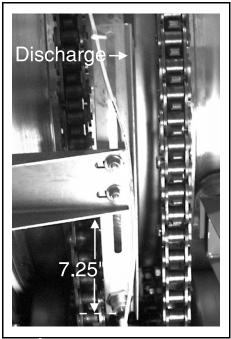


FIGURE 2 (MSSMD446AE) Clockwise Limit Switch(RPX1)

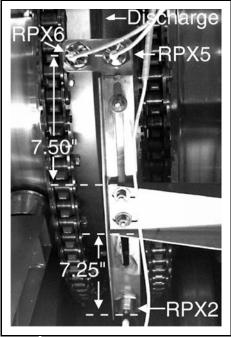


FIGURE 3 (MSSMD446AE)
Counterclockwise Limit
Switch (RPX 2). Alignment
Switches (RPX5 and RPX6)

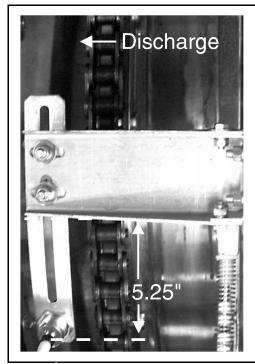


FIGURE 4 (MSSMD446AE)
Transfer Limit Switch
(RPX4)

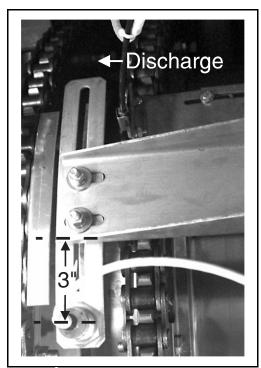


FIGURE 5 (MSSMD446AE)
Safety Limit Switch (RPX3)

3

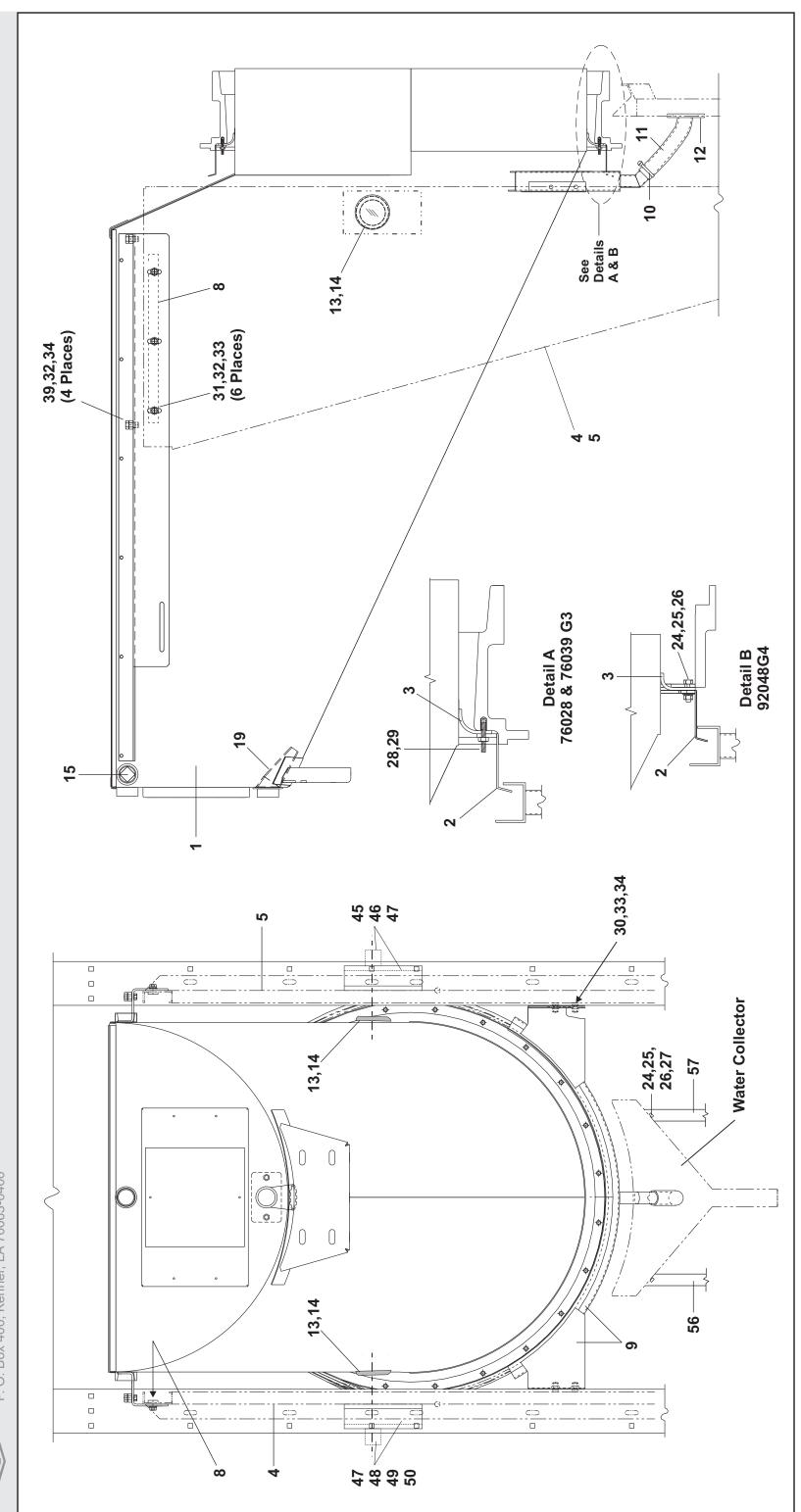
Load Chute and Seals

3.3

Load Chute and Seal Installation 76028G3, 76039G3, & 92048G4 Tunnels





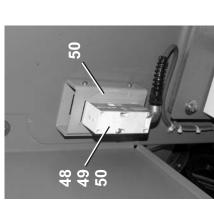


ion 76028G3, 76039G3, & 92048G4 Tunnels **Load Chute and Seal Installat**



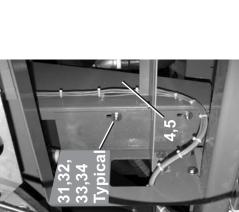
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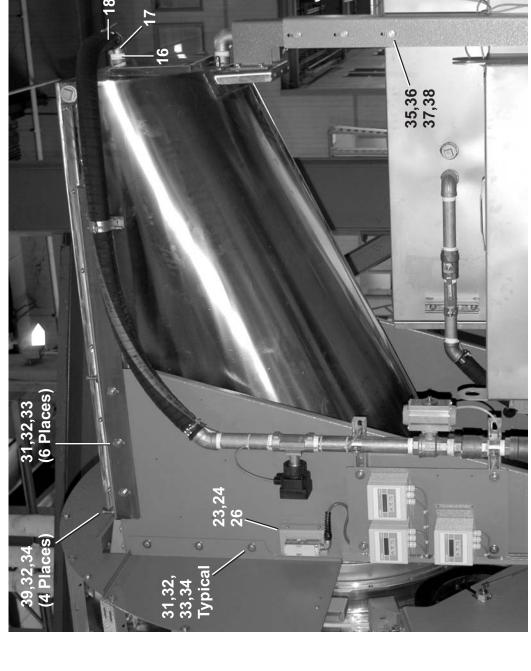








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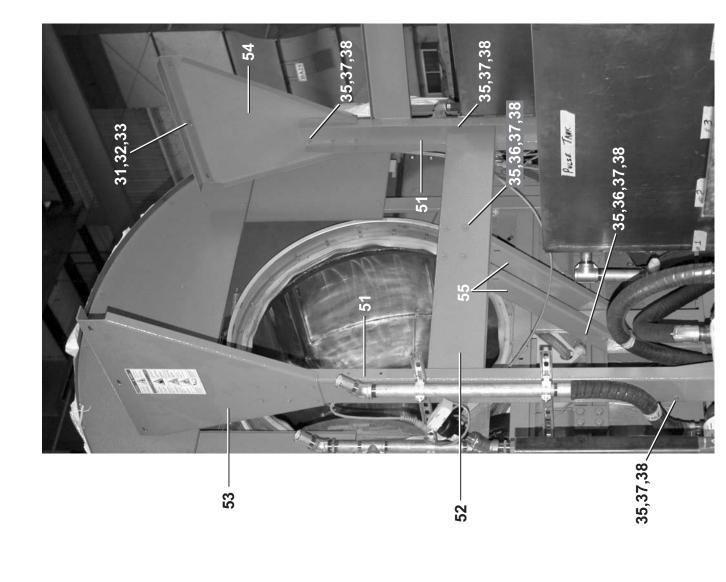


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Load Chute and Seal Installation 76028G3, 76039G3, & 92048G4 Tunnels

Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400





92048G4 Tunnel Load Chute Supports

Parts List—Load Chute and Seal Installation
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to
assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item
numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

	Item	Part Number	Description	Comments
			ASSEMBLIES	
	A	G65GC002	LG-LD SCOOP/SEAL INSTALL=Y2KCB	76028G3, 76039G3
_	В	GLC63001A	9248 W/PULSEFLOW LOAD CHUTE INSTALL	92048G4
			COMPONENTS	
< @		W6 20731B W6 30071B	BAG LOAD CHUTE WLMT 9248 W/PULSEFLOW LOAD CHUTE WLMT	
∀ Ø	0 0	W6 20732 06 30112	*LG CHUTE FLARE-RING WLMT 9248 LOAD CHUTE FLARE RING	
∀ M	ကက	06 20212U 06 30088	LG CBW-LOAD CHUTE SEAL LOAD CHUTE SEAL	
<u> </u>	4	06 40132C	LOAD COS SCOOP SIDE LF G3	
∢	5	06 40132D	LOAD COS SCOOP SIDE RT G3	
<	9	06 40132G	BRKT=LOAD SCOOP SUPPORT-LFT	
<	7	06 40132H	BRKT=LOAD SCOOP SUPPORT-RGT	
& @	∞ ∞	06 20316 06 30089	TAP BAR LOAD FUNNEL 2/TUNNEL LOAD CHUTE SUPT TAP BAR	
« A	തത	W6 40117E W6 30145	G3 H20 CATCHER/CHAIN PROT WLT LOAD CHUTE H20 CATCHER WLMT	
all	10	27A060	HOSECLAMP1+5/16-2.25CADSC#HS28	
all	7	60E014R	TUBING NYLOBRAID 1.25X1.75	
all	12	60E010	TUBINGPOLYBRAID 1"X1.312	
all	13	06 20739	EXTRUSION GLASS PROXSW	
all	41	06 20739A	GLASS=3.06 DIA PROXSW	
all	15	5SP1EDESC	NPT PLUG 1.25 SQCORED GALV CI	
all	16	5N1ECLSG42	NPT NIP 1.25XCLS TBE GALSTLS40	
∀ Ø	17	5SL1ENFA 5SL1KNFA1E	NPT ELB 90DEG 1.25 GALMAL 150# NPTELB 90D 1.5X1.25GALMAL 150#	
all	18	5N1E02KG41	NPT NIP 1.25X2.5 TOE GALSTL S4	
all	19	W6 70262	CBW LOAD CHUTE FLUSH PIPE	
₩	20	06 70247 06 70249	7639 PULSEFLOW CHUTE SUPPORT 9248 CHUTE SUPPORT W/PULSEFLOW	
∀ Ø	21	06 70246 06 70255	G3 LOADCHUTE SUPPORT BRKT LOADCHUTE SUPPORT BRKT	

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Used In	allation	Co	
t—Load Chute and Seal Installation I find the needed components. The item letters (A, B, C, etc.) assigned to ed In" column to identify which components belong to an assembly. The item ponents relate the parts list to the illustration.	cont.—Load Chute and Seal Insta	Description	
t—Load Chute and Seal Installation I find the needed components. The item letters (A, B, C, etc.) assigned to ed In" column to identify which components belong to an assembly. The item ponents relate the parts list to the illustration.	Parts List,	Part Number	
t—Load Chute and Seal Installation if find the needed components. The item letters (A, B, C, etc.) assigned to ed In" column to identify which components belong to an assembly. The item ponents relate the parts list to the illustration.		Item	
f—Load Chute and Seal Installation I find the needed components. The item letters (A, B, C, etc.) assigned to ed In" column to identify which components belong to an assembly. The item ponents relate the parts list to the illustration.		Used In	
e ret	Parts List—Load Chute and Seal Installation	ifind the needed components. The item letters (A, B, C, etc.)	sed in column to identify which components belong to an assembly. I nponents relate the parts list to the illustration.

tion	Comments																																	
Parts List, cont.—Load Chute and Seal Installation	Description	LD CHUTE TOP MNT BRKT RT	LOAD CHUTE ANGLE SPPT BRKT																															
Parts L	Part Number	06 30090A	06 30169																															
	Item	54	55	}																														
	Used In	В	æ	ı																														
	tters (A, B, C, etc.) assigned to belong to an assembly. The item		Comments																															
Parts List—Load Chute and Seal Installation	Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assembly assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item	mponents relate the parts list to the illustration.	Description	FLUSH COVER PLATE	HXCAPSCR 1/4-20X3/4 SS18-8	LOCKWASHER MEDIUM 1/4 SS18-8	FLTWASH 1/4 STD COMM SS18-8	HEXNUT 1/4-20UNC2 SS18-8	BUTSOKCAPSCR 1/4-20X5/8 SS18-8	SOKSETSCR 5/16-18X1+3/4 SS18-8	HEXLOKNUT 5/16-18 BRASS	HEXCAPSCR 3/8-16UNC2X1SS18-8	HEXCAPSCR 3/8-16X1+1/4 SS18-8	FLTWASH 25/64IDX1.25ODX3/32 S/	LOCKWASHER MEDIUM 3/8 SS18-8	HEXNUT 3/8-16 UNC2 SS 18-8	HXCAPSCR 3/8-16UNC2A1.25 GR5 P	FLATWASHER(USS STD) 3/8" ZNC P	LOCKWASHER MEDIUM 3/8 ZINCPL	HXNUT 3/8-16UNC2B ZINC GR2	HEXCAPSCREW 3/8-16X2.25 SS FT	HXCAPSCR 1/2-13UNC2AX1.5 GR5 P	FL+WASHER(USS STD)1/2 ZNC PL+D	LOKWASHER REGULAR 1/2 ZINC PLT	HXNUT 1/2-13UNC2B SAE ZINC GR2	PHOTOEYE EMITTER 24/120V AC	P.E. PWR.BLK. NO-OUT 120V-IN	BRKT: CBW PHOTOEYE-LOAD SCP	PHOTOEYE RECEIVER 24/120V AC	P.E. PWR.BLK. 120V-OUT 120V-IN	PHOTOEYE ON/OFF LOGICMOD #LM3	LOAD CHUTE VERTICAL MOUNT	LD CHUTE HORZ BRACE	LD CHUTE TOP MOUNT BRKT LF
Parts Lis	ssembly first, the	c.) assigned to cor	Part Number	06 20737	15N186	15U181	15U188	15G170	15K033	15Q041	15G188	15K096	15K100	15U245A	15U260	15G206	15K105	15U240	15U255	15G205	15K122A	15K162	15U280	15U300	15G230	09RPE006A	09RPE007A	03 BC6X66	09RPE006B	09RPE007B1	09RPE006B2	06 30079	06 30081	06 30080
	correct as	(1, 2, 3, etc	Item	22	23	24	25	26	27	28	59	30	31	32	33	34	35	36	37	38	36	4	42	43	44	45	46	47	48	49	20	51	52	53
	Find the	numbers	Used In	a	all	all	all	all	a	a	all	all	<u>a</u>	a	all	all	a	all	a a	all	all	a a	all	all	all	all	all	all	all	all	all	В	В	В

G3 Retractable Load Chute Option

1 of 2

76028 & 76039 G3 Tunnels

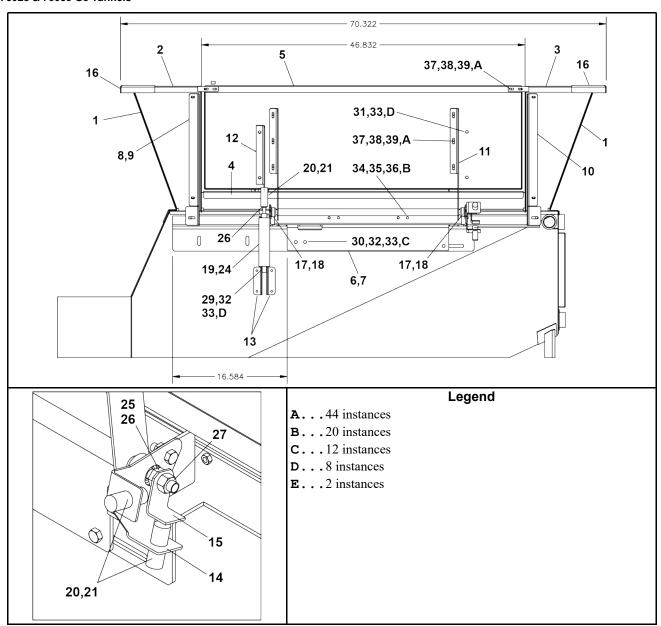


Table 1. Parts List—G3 Retractable Load Chute

			and the letter shown in the "Item" column. The component " column. The numbers shown in the "Item" column are th	
Used In	Item	Part Number	Description/Nomenclature	Comments
			Components	
all	1	04 20196	LDCHT FLAIRSIDE FR/BK-G3 SLING	
all	2	04 20197C	RETRACTABLE LDCHT-LF	
all	3	04 20197D	RETRACTABLE LDCHT-RT	

G3 Retractable Load Chute Option

76028 & 76039 G3 Tunnels

Parts List—G3 Retractable Load Chute (cont'd.)

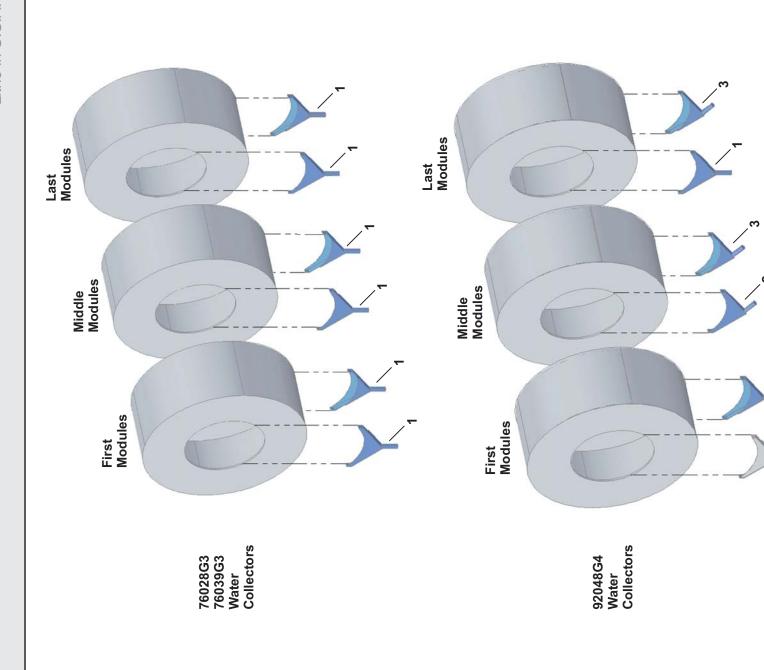
Find the a letter or th	ssembly e word	for your machine	and the letter shown in the "Item" column. The componer n" column. The numbers shown in the "Item" column are	nts for your machine will show this those shown in the illustrations.
Used In	Item	Part Number	Description/Nomenclature	Comments
all	4	04 20197E	RETRACTABLE LDCHT-BOTTOM	
all	5	04 20197F	RETRACTABLE LDCHT-PANEL	
all	6	04 24203	RETRACTABLE LDCHT TILT BRKT-LT	
all	7	04 24203A	RETRACTABLE LDCHT TILT BRKT-RT	
all	8	04 20198B	RETRACTABLE LDCHT STFNR-LF	
all	9	04 20198C	RETRACTABLE LDCHT STFNR-RT	
all	10	04 24497	FOLDING DOOR STOP BAR	
all	11	W4 24202	RETRACTABLE LDCHT SHAFT WLMT	
all	12	04 24573	DOOR ACTUATOR-CBW CHUTE	
all	13	04 24201A	RETRACTABLE LDCHT AIRCYL BRKT	
all	14	04 24201C	PROX SWTCH BRKT	
all	15	04 24201D	PROX SWTCH TARGET	
all	16	04 24200	RETRACTABLE LDCHT CORNER COVER	
all	17	54E015BM	FLMTBRG 3/4"ALL BRZ T#FL7190.	
all	18	15U348	FLTWASH 101NYL 1.25"ODX.781"ID	
all	19	27C104A	AIRCYL 1.5"BORE X 4"STROKE(PIVOT)	
all	20	17A018	7/16-20 ADJ YOKE END DROPFORGE	
all	21	17A011	7/16X1+11/32"OAL CLEVISPIN SAE	
all	22	09RPS18ADU	PRXSW QK CONN 18M NO-DC UNSHLD EUROFAST	
all	23	09RPSDC095	CON.90DEG FEMALE DC 3A300V 5M WK4T-6	
all	24	96J026	3/8"FLOW REG-SMC AS3000-N03	
all	25	15U285	FLATWASHER 1/2 STD COMM SS18-8	
all	26	15G231S	HXFINJAMNUT 1/2-13UNC2B SS18-8	
all	27	15G234NS	HXLOCKNUT NYL 1/2-13UNC2 SS18-	
all	29	15K122	HEXCAPSCR 3/8-16UNCX2 SS18-8	
all	30	15K112	HXCAPSCR 3/8-16X1+1/2 SS18-8	
all	31	15K091E	BUTSOKCAPSCR 3/8-16NCX 1" SS18	
all	32	15U245	FLTWASH 3/8 STD COMM 18-8 SS	
all	33	15G207	HEXLIGHTLOKNUT 3/8-16 18-8SS N	
all	34	15U200S	FLATWASHER US STD 5/16 SS18-8	
all	35	15U205	LOCKWASHER MEDIUM 5/16" 18-8SS	
all	36	15G186	HEXNUT 5/16-18UNC2 SS18-8	
all	37	15U181	LOCKWASHER MEDIUM 1/4 SS18-8	
all	38	15U188	FLTWASH 1/4 STD COMM SS18-8	
all	39	15G170	HEXNUT 1/4-20UNC2 SS18-8	

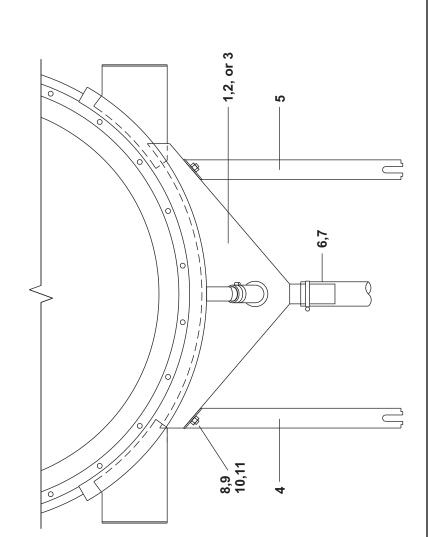
Water Collectors

76028G3, 76039G3, & 92048G4











Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

Litho in U.S.A.

Parts List—Water Collectors
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
	А	G67WC001	G3 WATER COLLECTOR ASSY	76028G3, 76039G3 92048G4
	В	G63WC003	9248 LOAD CHUTE H20 CATCH INST	92048G4
	С	G63WC002A	WATER CATCHER ANGLE OUT RT INS	92048G4
	D	G63WC002	WATER CATCHER ANGLE OUT INST	92048G4
all	1	06 20629D	ENTRY&EXIT H20 COLLECT-TARG	SEE ILLUSTRATION
all	2	06 20629C	INLET WATER COLLECT NO-TARG	SEE ILLUSTRATION
all	3	06 20629B	EXIT SIDE-WATER COLL NO-TARG	SEE ILLUSTRATION
AB AB	4	06 20632B 06 20232D	SCUPPER BRKT LEFT SIDE SCUPPER BRKT LEFT 9248	G3 G4
AB AB	5 5	06 20632A 06 20232C	SCUPPER BRKT RIGHT SIDE SCUPPER BRKT RIGHT 9248	G3 G4
all	6	60E016B	CLEAR TUBING 1.75"ID X 2.25"OD	
all	7	27A065S	HOSECLAMP 1.56"-2.5"SSSCR#32	
all	8	15K033	BUTSOKCAPSCR 1/4-20X5/8 SS18-8	
all	9	15U188	FLTWASH 1/4 STD COMM SS18-8	
all	10	15U181	LOCKWASHER MEDIUM 1/4 SS18-8	
all	11	15G170	HEXNUT 1/4-20UNC2 SS18-8	

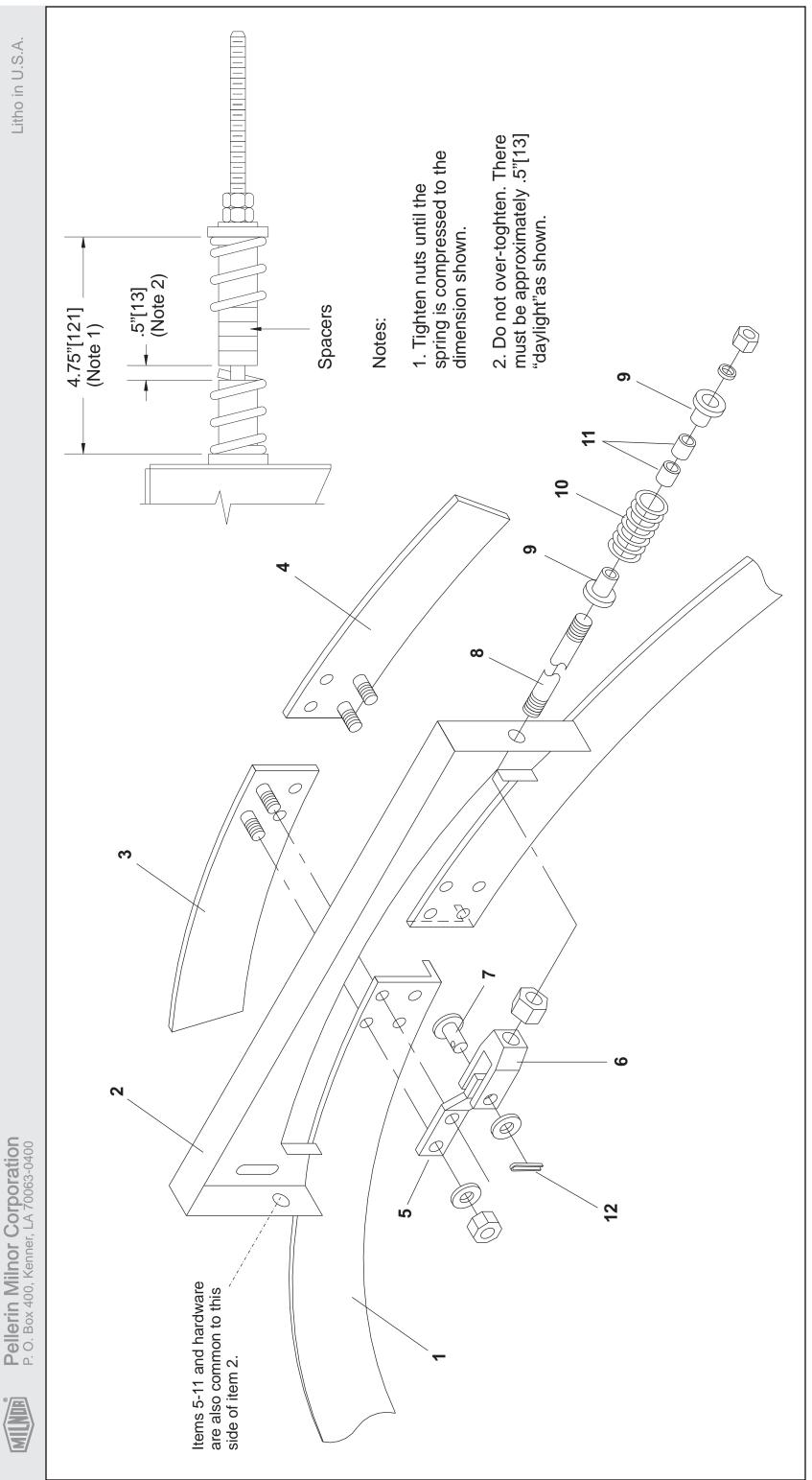
Litho in U.S.A.

Unit To Unit Transition Seal Installation 76028 & 76039 CBW (G2 & G3)

Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400 **Parts List—Unit To Unit Transition Seal Installation**Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Comments	REFERENCE ASSEMBLY	
Description	9623C 7628 CONNECT TRANS SEAL ASSY 96241E*WLMT=DRIP RING WM CONN RETR 96273B UNIT/UNIT TRANS RING SEAL SOKSETSCR 5/16-18X1+3/4 SS CUP PNT HEXLOKNUT 5/16-18 BRASS	
Part Number	G64TS001 W6 40048G 06 40048A 15Q041 15G188	
In Item	000 003 004	
Used In		
	See Detail B DETAIL A	3,4 Flow of Goods The state of

76028G2/G3 & 76039G2/G3 Tunnels, 92048G4 Tunnels **Tension Seal Assembly**





Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

Litho in U.S.A.

Parts List—Tension Seal Assembly
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
	A	G62 00400H	INST SPLIT SEAL-ENTRY&EXIT	76028G2/G3 76039G2/G3
	В	GSS63001	SPLIT -LSEAL INSTALL	92048G4
			COMPONENTS	
A B	1	X6 20615 X6 30038	SEAL=OPEN CUT&DRILL SEAL OPEN,CUT&DRILL-8648CBW	
all	2	W6 20639	*L-SEAL CVR IN-LIP EXIT WLMT	
all	3	W6 20638	PLT=REINF-SPLT-SL-LG-LF-WLMT	
all	4	W6 20637	PLT=REINF-SPLT-SL-LG-RT-WLMT	
all	5	06 20416A	BRKT YOKE CONN.SPLIT SEAL	
all	6	17A004	ADJ YOKE END 1/4-28 XYLAN COAT	
all	7	17A004A	CLEVIS PIN 1/4"X3/4"DRILLED SS	
all	8	06 20416C	ROD=SPRING TENSION SPLITSEAL	
all	9	06 20416D	BUSHING=SPRING ALIGNMENT	
all	10	06 20162B	SPRING COMP.SPLIT SEAL TENS	
all	11	27B17006HN	SPCR .281ID.613OD.500L	
all	12	15H019	STDCOTTERPIN 1/16X1/2 SS18-8	
		1		

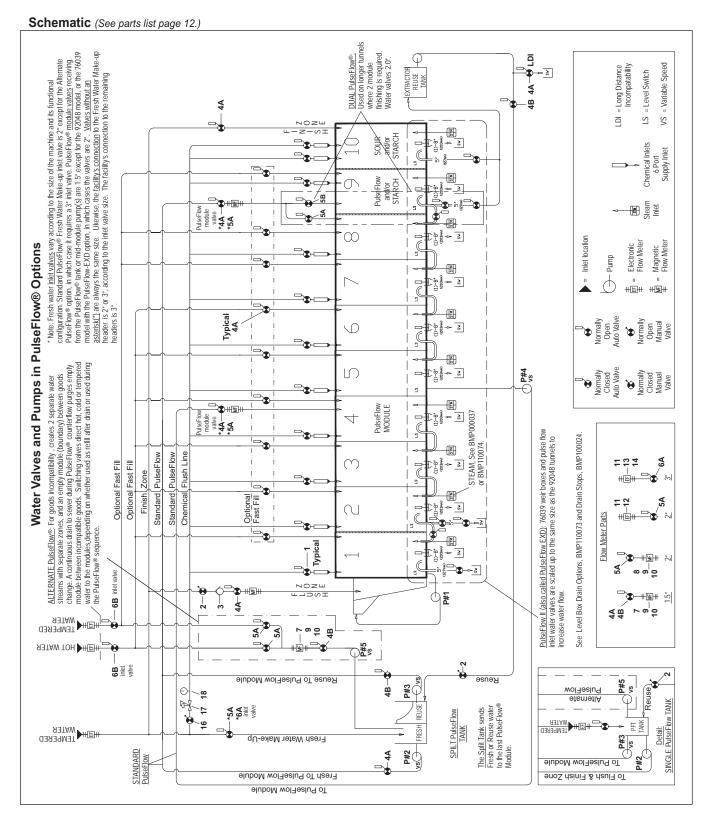
3

Water, Steam and Peristaltic

3.4

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PulseFlow® Water Options: Schematic and Piping



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PulseFlow® Water Options: Schematic and Piping

76028, 76039, 92048 Pulse Flow Tunnels

Pump Chart

Vertical Pumps

Pump	#2	Pump	#3
------	----	------	----

Pumps that vary with Tank and Pul	seFlow®	Option: U	se with part	s list.			
	HP P	umps with	Single Pu	ulseFlow®	Tank		
Pump Locations	P#1	P#2	P#3	P#4	P#5		
Pulse Flow Options:							
Standard Pulse Flow	3HP	3HP	5HP	7.5HP	_		
Alternate Pulse Flow	3HP	3HP	5HP	7.5HP	5HP		
PulseFlow II or PulseFlow EXD	3HP	3HP	7.5HP	7.5HP	_		
Alternate Pulse Flow with PulseFlow II or PulseFlow EXD	3HP	3HP	7.5HP	7.5HP	7.5HP		
	HP	Pumps with Split PulseFlow® Tank					
		VERTICAL PUMPS (greyed)					
Standard Pulse Flow	3HP	5HP	5HP	7.5HP	_		
Alternate Pulse Flow	3HP	5HP	5HP	7.5HP	5HP		
PulseFlow II or PulseFlow EXD	3HP	7.5HP	7.5HP	7.5HP	_		
Alternate Pulse Flow with PulseFlow II or PulseFlow EXD	3HP	7.5HP	7.5HP	7.5HP	7.5HP		

**P#4 is the Mid-Module Pump.
All pumps not greyed are horizontal.



Optional Pump #2 Pump #3 Pump #5

Horizontal Pumps (horizontal mounting before 01/2018).



Pumps for Single PulseFlow® Tank



Split Tank (Optional 10/2017, Standard 1/2018)

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PulseFlow® Water Options: Schematic and Piping

76028, 76039, 92048 Pulse Flow Tunnels

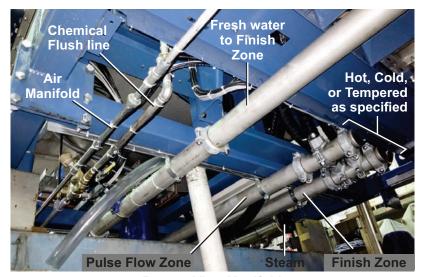
Inlets and Manifolds



Water Inlets (One fresh water inlet to tank is standard; maximum is four.)



Bottom View Manifolds



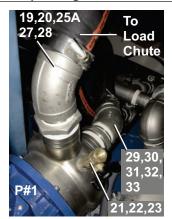
Bottom View Manifolds

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PulseFlow® Water Options: Schematic and Piping

76028, 76039, 92048 Pulse Flow Tunnels

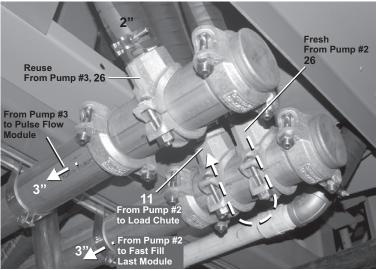
Pump Fittings







Pulse Flow Manifolds



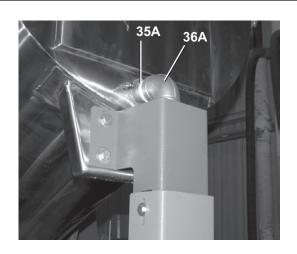
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PulseFlow® Water Options: Schematic and Piping

76028, 76039, 92048 Pulse Flow Tunnels

Load Chute Recirculation





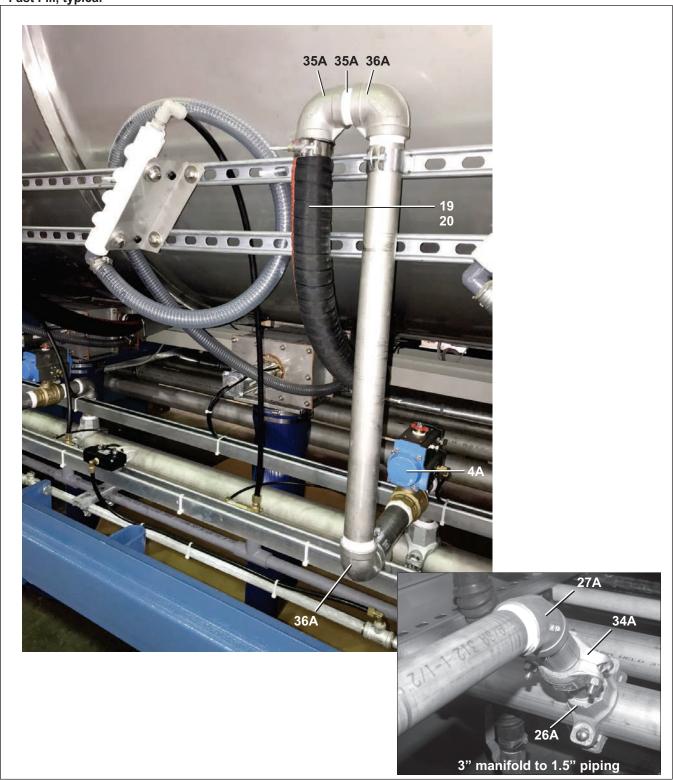


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PulseFlow® Water Options: Schematic and Piping

76028, 76039, 92048 Pulse Flow Tunnels

Fast Fill, typical

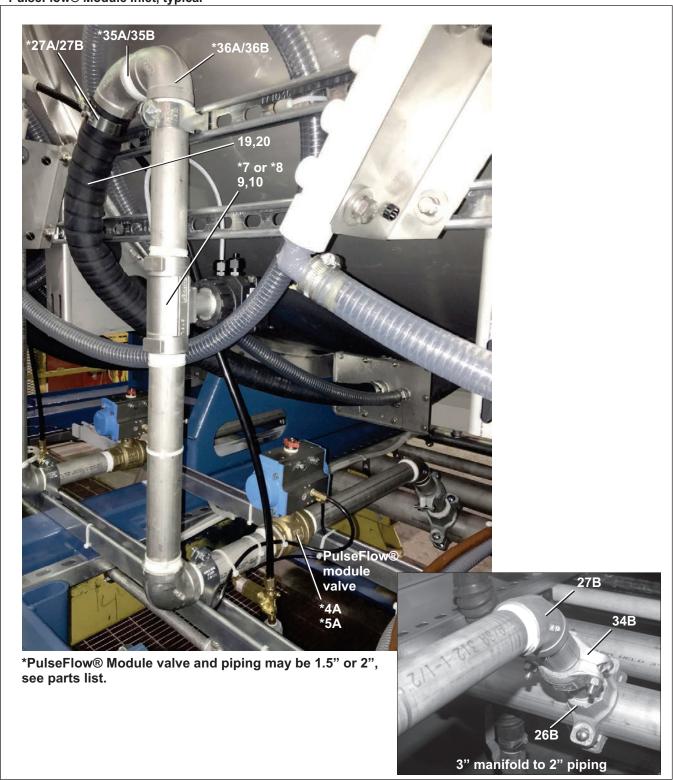


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PulseFlow® Water Options: Schematic and Piping

76028, 76039, 92048 Pulse Flow Tunnels

PulseFlow® Module Inlet, typical

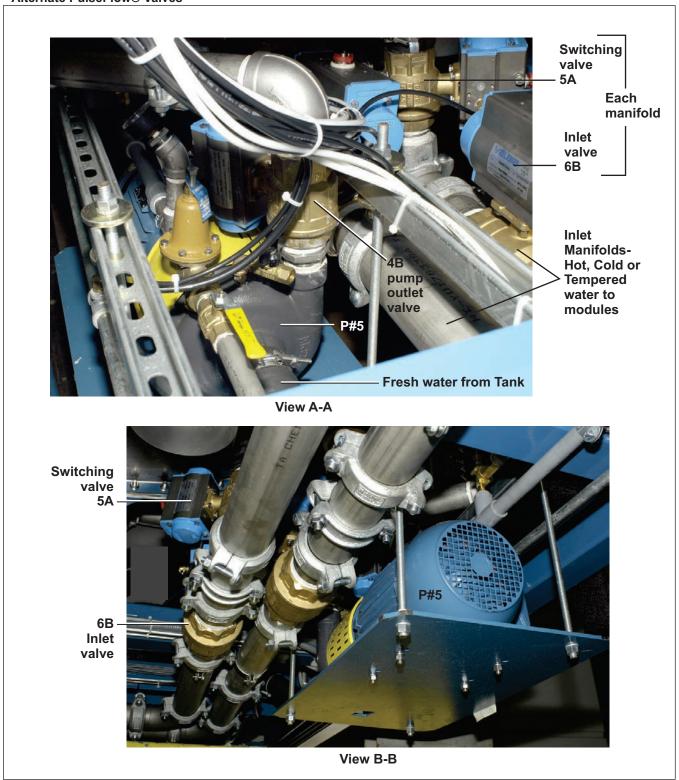


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PulseFlow® Water Options: Schematic and Piping

76028, 76039, 92048 Pulse Flow Tunnels

Alternate PulseFlow® Valves

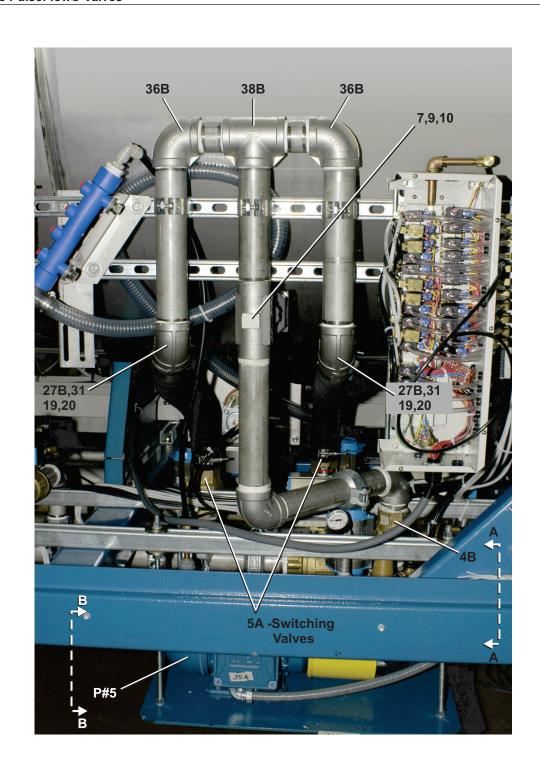


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PulseFlow® Water Options: Schematic and Piping

76028, 76039, 92048 Pulse Flow Tunnels

Alternate PulseFlow® Valves



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PulseFlow® Water Options: Schematic and Piping

76028, 76039, 92048 Pulse Flow Tunnels

Dual PulseFlow® Valves

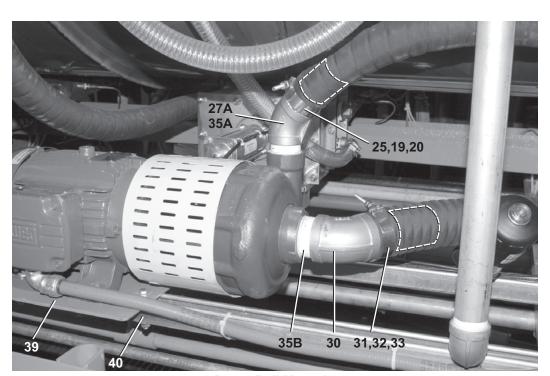


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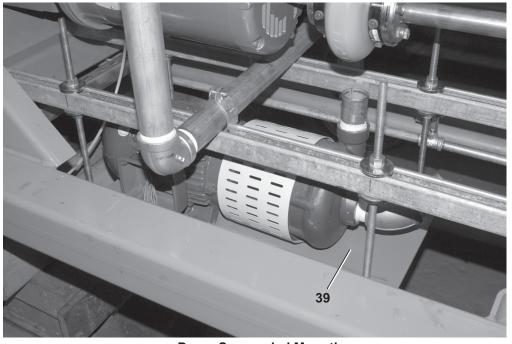
PulseFlow® Water Options: Schematic and Piping

76028, 76039, 92048 Pulse Flow Tunnels

Mid-Module Pump(P#4) & Alternate Pulse Flow Pump(P#5)



Pump Rail Mounting



Pump Suspended Mounting

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PulseFlow® Water Options: Schematic and Piping

76028, 76039, 92048 Pulse Flow Tunnels

Parts List

Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments			
	(H) (V)		REFERENCE REFERENCEPUMPS SINGLE TANK	Horizontal Pump Vertical Pump			
		27E935G96 27E934A96 27E935A96 27E936A96 27E936B96	PUMP EBARA DWO 3006 3HP 230/460 PUMP 2"X1.5" W/ 4.25" IMPELLER 3HP PUMP 2X1 1/2 W/4.75 IMPELLER 5HP PUMP 2"X1.5" W/5.25" IMPELLER 7.5 HP PUMP S/S VORTEX 2"X1.5" W/ 6.25" IMPELLER 7.5HP	3HP HORIZONTAL 3HP HORIZONTAL 5HP HORIZONTAL 7.5HP HORIZONTAL 7.5HP VORTEX HORIZ.			
			PUMPS SPLIT OR DUAL TANK				
	P#1 P#2,3,5(V) P#2,3,5(V) P#4(H)	27E935G96 27E935A96V 27E936A96V 27E936B96	PUMP EBARA DWO 3006 3HP 230/4603 PUMP VERTICAL 2X1 1/2 W/4.75 IMPELLER 5HP PUMP VERTICAL 2"X1.5" W/5.25 IMPELLER 7.5HP PUMP S/S VORTEX 2"X1.5" W/6.25" IMPELLER 7.5HP	3HP HORIZONTAL 5HP VERTICAL 7.5HP VERTICAL 7.5HP VORTEX HORIZ.			
			VALVES				
all	1	96TBC2AA01	1/4" N/C 1WAY AIR-OP VLV POLYPRO(NO COIL)				
all	2	96D087FSHL	1.5" BALVAL S/S LLHDL BONOMI #700LL-1.5				
all	3	96D087BCK	CK VAL 1.5"WATTS#600-Z3 W/S/S DISH(SPECIAL)				
	4A 4A	96D087FBA 96D087FSB	1.5"BALVAL+ACT BRS N/C BONOMI (SPRING RET) 1.5" BALVAL+ACT S/S BONOMI SPRING RETURN N/C	STAINLESS OPTION			
	4B 4B	96D087FBAO 96D087FSAO	1.5"BALVAL+ACT BRS N/O BONOMI (SPRING RETURN) 1.5" BALVAL+ACT SPRING RETURN S/S BONOMI N/O) STAINLESS OPTION			
	5A 5A	96D088FBA 96D088FSAS	2" BALVAL+ACT BRS N/C BONOMI (SPRING RET) 2" BALVAL+ACT S/S N/C BONOMI (SPRING RETURN)				
	5B	96D088FBAO	2"BALVAL+ACT BRS N/O BONOMI (SPRING RETURN)				
	6	96D090FBA 96D090FBAO	3"BALVAL+ACT BRS N/C SPRING RET BONOMI 3"BALVAL+ACT BRS N/O SPRING RET BONOMI				
all	7	30F568	MAGMETER FITTING 316SS 1.5"				
all	8	30F570	MAGMTR FITTING 316S/S 2"				
all	9	30F580	8041 BLIND UNIT MAG SENSOR SHORT FINGER				
all	10	30F580A	8025 LOWFLOW WALL-MNT TRANSMIT				
all	11	30F515	FLOW SENSOR SIGNET #P51530-PO				
all	12	30F519A	2" SADDLE FITTING #IR8S020 PADDELWHEEL				
all	13	5R3A1ECI	NPT SADDLE 3X1.25 CI 300# SB				
all	14	30F516	ADFOR 2.5" + 3" SADDLE SIGNET				
all all	16 16	96D050A 96D055FSH	3/4"BALLVALVE BRZ = BONOMI 171N 3/4" BALVAL S/S BONOMI#700023	BRASS STAINLESS OPTION			
all	17	96J031D	3/4"PRESSREG SET 28#				
all	18	30N100	PRESSGAUGE 1/8"BACKCN.0-30PSI				
all	19	27A072	T-BOLT HOSECLAMP2.16-2.47CADSC				
all	20	60E255	HOSE 2" ID X 2.45" OD WATER CORRUGATED 50 FEE	Т			

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PulseFlow® Water Options: Schematic and Piping

76028, 76039, 92048 Pulse Flow Tunnels

Parts List

Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
all	20	60E255E	HOSE 2" EPDM WATER CORRUGATED(V50)50'	EPDM FOR REUSE WATER
all all	21 21	96D021 96D021S	1/4" BALVLV BRZ-BONOMI #172N-1/4" W /T-HANDLES 1/4" BALVLV 304SS W /T-HANDLE	
all	22	5SB0E0CBEO	NPTHEXBUSH 1/4X1/8 BRASS 125#	
all	23	5N0CCLSB42	NPT NIP 1/8XCLS TBE BRASS STD	
all all	25 25	5N1K03AS41 5N2A04AS41	NPT NIP 1.5X3 TOE 304SS SK40 NPT NIPPLE 2X4 TOE 304SS	
all all	26 26	51V352 51V353	MECH-T 3X1.5FEM #920N GALV MECH-T 3X2 #920N FEM GALV	
all all	27 27	5SL1KSFK 5SL2ASFK	NPT ELBOW 45DEG 1.5" 304SS 150 NPT ELBOW 45DEG 2" 304SS 150#	
all	28	5SB2A1KSFO	NPTHEXBUSH 2X1.5 304SS 150#	
all	29	5SB2K1KSFO	NPTHEXBUSH 2.5X1.5 304SS 150#	
all	31	5N2A03AS41	NPT NIPPLE 2X3 TOE 304SS Sk40	
all all	32 32	27A075 27A075B	T-BOLT HOSECLAMP 2.78-3.09" T-BOLT HOSE CLAMP-2.66-2.94 (STBC288)	
all all	33 33	60E301 60E301E	HOSE 2.5"WATER CORRUGATED(V50) HOSE 2.5" EPDM WATER CORRUGATED(V50) 50'	EPDM FOR REUSE WATER
all all all all all	34 34 34BG 34 34CG	27E971D 27E971C 27E971CG 27E972A 27E972AG	VICT COUP 1.5"GALV #75 VICT COUP 2"GALV #75W/E GASKET E GASKET FOR 2" # 75 COUPLING VICT COUP 3"GALV#75 W/"E"GSKT E GASKET FOR 3" #75 COUPLING	
all all	35 35	5N1KCLSS42 5N2ACLSS42	NPT NIP 1.5XCLS TBE 304SS SK40 NPT NIP 2XCLS TBE 304SS Sk40	
all all	36 36	5SL1KSFA 5SL2ASFA	NPT ELB 90DEG 1.5 304SS 150# NPT ELBOW 90DEG 2" 304SS 150#	
all	37	5N1K12KS41	NPT NIPPLE 1.5X12.5 TOE 304SS	
all	38	5S2ASFA	NPT TEE 2" 304SS 150#	
all all	39 39	06 30215 06 30216	PUMP MNT MID MOD 7639 MID MOD PUMP MNT 9248	
all	40	27A0200	CLP-RGDSTL PS#1100-2 10/BAG	

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Standard Large Split PulseFlow® Tank

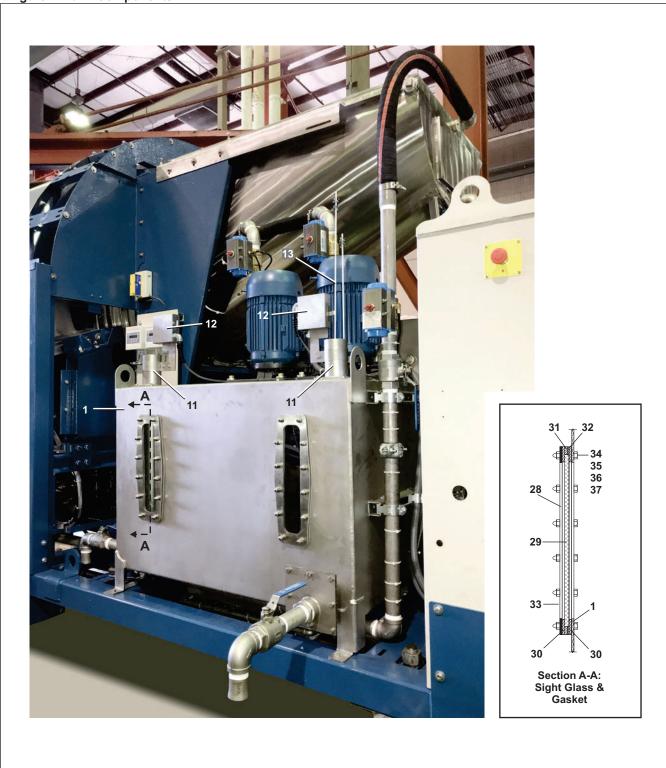
Figure 1: Tank Components



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Standard Large Split PulseFlow® Tank

Figure 2: Tank Components

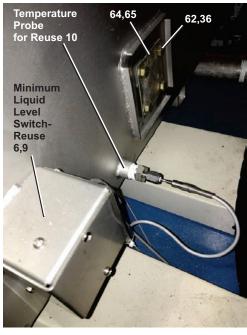


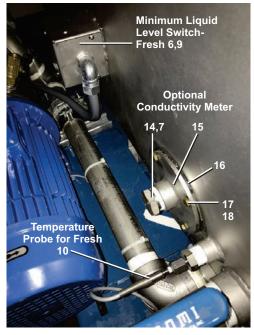
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Standard Large Split PulseFlow® Tank

Figure 4: Pumps, Valves, Probes, and Sensors







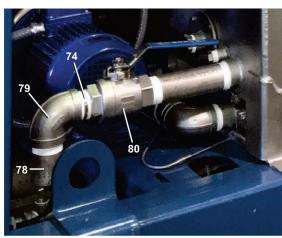
View B-B

View C-C

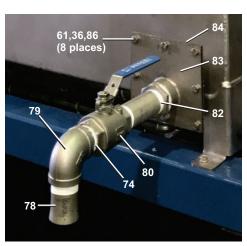
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Standard Large Split PulseFlow® Tank

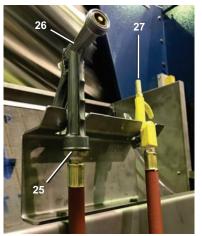
Figure 5: Drains, Water and Air Nozzels



Standard Manual Drain - Fresh



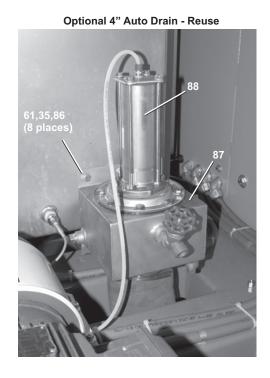
Optional Manual Drain - Reuse



Water and Air Nozzles



View D-D



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Standard Large Split PulseFlow® Tank

Figure 3: Wedge Wire Sub-assembly



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Standard Large Split PulseFlow® Tank

76028, 76039, 92048 PulseFlow® Tunnels

Parts List—Standard Large Split PulseFlow Tank
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the particular the illustration. parts list to the illustration.

Used In Iten		Part Number	Description	Comments				
		ļ	REFERENCE ASSEMBLIES					
	A B C D E F G	A62 03900Z A62 03900ZS A62 03902Z A62 03901Y G65WV009 G67CL009 A67CL008 G62 03900B	ASSY=PULSEFLOW DUAL TANK LARGE ASSY=PULSEFLOW DUAL TANK LARGE SS VALVES ASSY=PULSEFLOW DUAL TANK-9248 PULSEFLOW TANK WEDGEWIRE DUAL TANK INTS=G3 DUAL PULSEFLOW TANK PUMP PIPING INST=AIRWATER NOZZLES DUAL PULSEFLOW ASSY=AIRWATER NOZZLES PULSEFLOW SCREEN INST=SIGHT GLASS DUAL TANK LARGE					
			COMPONENTS					
A,B C	1	W6 70234C W6 70234D	WLMT=PULSEFLOW DUAL TANK LARGE WLMT=PULSEFLOW DUAL TANK-9248					
A,B C	2 2	W6 70245A W6 70245B	WLMT=PULSEFLOW DUAL TANK COVER-LARGE WLMT=PULSEFLOW DUAL TANK COVER-9248					
all all all all all	3 4 6 7 8 9	02 175037 W6 20579 03 E32EP 09XSCD0001 09XSPH0001 09RL001	HANDLE=SHELDOR=WED-SS LINT TRAY WMT-250G SURGE TNK COVER=SAFETY LEVEL SWITCH-DEEP ROSEMOUNT 226 CONDUCTIVITY TOROIDAL ROSEMOUNT PH 3900VP LIQUID LEVEL SW. SIDE MOUNT GEMS #131100					
all	10 11 12 13 14 15 16 17 18	30R0043PSA A67LS003A ELL000MK2 SA 02 011A 5SP1ASFSS W6 70286 06 40069G 24G020N 15K035A 96D034	TEMPERATURE PROBE ASSY=S/S LEVEL SW ASSY - DUAL TANK *WATER LEV SW ASSY: 1 UP+ 1LO *FLOAT ASSY L=44" NPT PLUG 1" HEXSOLID 304SS WLMT=CONDUCT METER FLANGE N/C DBL ACT DYE DMP VLV GSKT ROLLED WASH.252ID NYLTITE 25W HEXCAPSCR 1/4-20 X 3/4 BRASS BALL VLV - BONOMI 1/2" 171S SS BALL/STEM					
all	20 21 22 23 24 25 26 27 28 29	60E005F 53A10SSKB 53A3000KB 53A4000KB 60E077B068 51E513A 27A012N 97Q200T 02 19128 02 18657	TUBING NYL.BLK.1/2"ODX.375ID .5T COMPNUT 11/16-20 AND#61A-8 SLEEVE 1/2"OD TUBE #60AP-8 TUBE INSERT 1/2"OD #60AE-8 HOSE ASSY 3/8"X68"+ENDS 3/4"MHX1/4"FP PARKER#78GH-12-4 WATER NOZZLE-PULSE FLOW SCREEN AIR GUN,1/4"NPT INLET,OSHA APP CLAMPRING=LEVEL IND SIGHTGLASS=LEVELINDICATOR					
all	30 31 32 33A 33B 33C 34 35 36 37 38	02 18940D 02 18941 02 18941A 03 06122A 03 06122B 03 06122C 15G200SS 15U260 24G030N 15G206 W6 20414 W6 20415	LEVEL IND GASKET-OUTER DYA GASKET=SIGHT GLASS-INNER 1/8 GASKET=SIGHT GLASS-INNER 3/3 MARKER LEVEL PULSE FL GALS/LITER MARKER LVL PULSE FRESH GALS/LITER MARKER LVL PULSE REUSE GALS/LITER HEXCAPNUT HIGH-CR 3/8-16 SS 1 LOCKWASHER MEDIUM 3/8 SS18-8 ROLLED WASH.379ID NYLTITE 37W HEXNUT 3/8-16 UNC2 SS 18-8 *WLDMT=DEFLECTOR WW LF HAND *WLDMT=DEFLECTOR WW RT HAND					

BMP180011/2023103A Page (7 / 7)

Standard Large Split PulseFlow® Tank

76028, 76039, 92048 PulseFlow® Tunnels

Parts List

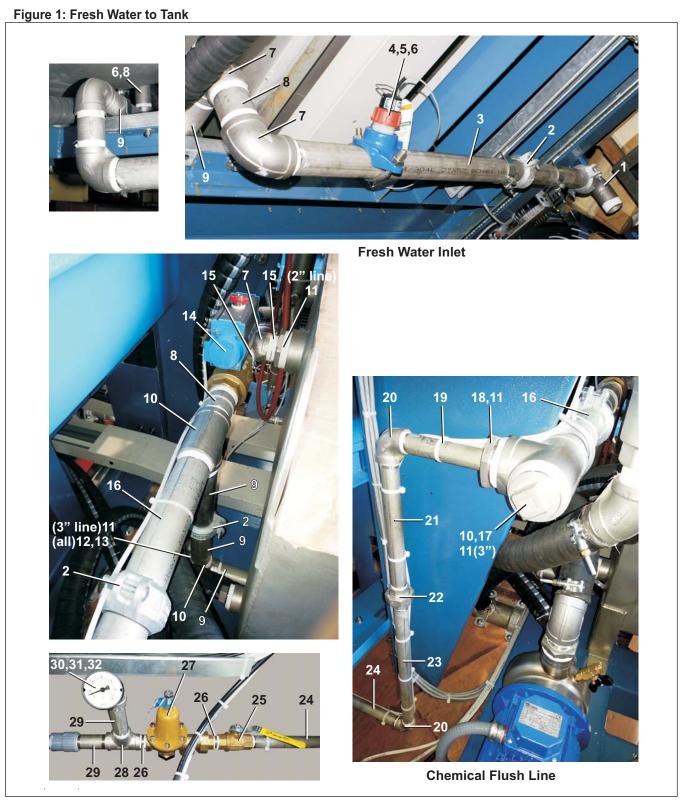
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments		
all all all all all all all all	41 42 43 44 45 46 47 48 49	06 70264A W6 70238 06 70268B 06 70268C 06 70210 06 70211 06 70213 06 70214 06 20404L	WEDGEWIRE TANK MOUNT BRKT OPP PULSEFLOW TANK WEDGEWIRE SUBASSEMBLY TANK INLET PARTITION LEFT DUAL TANK TANK INLET PARTITION RIGHT DUAL TANK WEDGE WIRE FRAME LOWER SUPP WEDGE WIRE FRAME UPPER SUPP WEDGE WIRE GUSSET WEDGE WIRE HOLD DOWN BAR 48" LINT TANK FILTER HOLDER			
all	50 51 52 53 54 55 56 57 58 59	06 20404B 12M043L150 5KL1KP4N 5KC1KP4E 15N158 15U181 15G170 15G164 15K142 15U188	SCREEN=48" LINT WEDGE WIRE LOCKNUT 1-1/2" NPT PVC SOC STREET EL 1.5" 90 DEG SLIPXSLIP ADAPTER 1.5 SXMPT PVC SCH40 HEXCAPSCR 1/4-20NCX1/2SS18-8 LOCKWASHER MEDIUM 1/4 SS18-8 HEXNUT 1/4-20UNC2 SS18-8 HX THIN LOCKNUT NYL1/4-20 SS HXCAPSCR 3/8-16X6 GR8ZC FLTWASH 1/4 STD COMM SS18-8			
all	60 61 62 64 65 66 67 68 69	15P200 15K096 15K096A 06 20297B 06 20298A 06 70320 27E936A96V 15K190B 15U310S	TRDCUT-F HXWASHD 3/8-16X3/4NIK HEXCAPSCR 3/8-16UNC2X1SS18-8 HXCPSCR.3/8-16X1SS18-8.123HD.H GASKET=DYE CBW STEAM FLANGE PLATE FLANGE NO STEAM VERTICAL PUMPP MNT COVER PUMP VERTICAL 2"X1.5" W/5.25" IMPELLER 7.5 HP HEXCAPSCR 1/2-13X2.5 FULLTHRD BRASS FLATWASH-SS .53 X 1.37 .187T			
all all	70 71 72	15U315S 5N1K13AS42	LOKWASHER MEDIUM 5/8 18-8 S/S NPT NIPPLE 1.5X13 TBE 304SS SK	N/C BRASS		
all all	72	96D087FBA 96D087FSB	1.5"BALVAL+ACT BRS N/C BONOMI (SPRING RET) 1.5" BALVAL+ACT S/S BONOMI SPRING RETURN N/C	N/C STAINLESS		
all all	73 73	96D087FBAO 96D087FSAO	1.5"BALVAL+ACT BRS N/O BONOMI (SPRING RETURN) 1.5" BALVAL+ACT SPRING RETURN S/S BONOMI N/O	N/O BRASS N/O STAINLESS		
all all all all all	74 75 76 77 78 79	5N1KCLSS42 5N1K03AS41 5SL1KSFK 6.00E+256 27A072 5SL1KSFA	NPT NIP 1.5XCLS TBE 304SS SK40 NPT NIP 1.5X3 TOE 304SS SK40 NPT ELBOW 45DEG 1.5" 304SS 150 HOSE 2" ID X 2.45" OD WATER CORRUGATED 50 FEET T-BOLT HOSECLAMP2.16-2.47CADSC NPT ELB 90DEG 1.5 304SS 150#			
all all all all all all	80 82 83 84 86 87 88	96D087FSHL 5SB2A1KSFO W6 70295 02 15026 15G206B W2 15997 A64DV009	1.5" BALVAL S/S LLHDL BONOMI #700LL-1.5 NPTHEXBUSH 2X1.5 304SS 150# WLMT=PULSE FLOW DRAIN GASKET-7"SQ=4"FLGDUMP VALVE HEXNUT 3/8-16UNC2 BRASS * BODY=4"DUMPVALVE=4231WE+SG ASSY=4" DUMP VALVE N/C PULSE FLOW			

BMP110063/2017302A Page (1 / 3)

Pulse Flow Tank Fresh Water Piping

76028G3, 76039G3, 92048G4

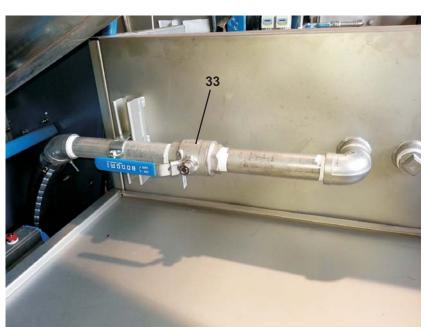


BMP110063/2017302A Page (2 / 3)

Pulse Flow Tank Fresh Water Piping

76028G3, 76039G3, 92048G4

Figure 2: Reuse Water from Press to Tank



Press Reuse Water to Pulse Flow Tank

Parts List

Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments			
			ASSEMBLIES				
	Α	A67PF001	G3 2" PULSE FLOW TANK FRESH WATER INLET	REFERENCE			
	В	A63PF001	G4 2" PULSE FLOW TANK WATER INLET ASSY	REFERENCE			
	С	A67PF001A	G3 3" PULSE FLOW TANK WATER INLET ASSY	REFERENCE			
	D	A63PF002	G4 3" PULSE FLOW TANK WATER INLET ASSY	REFERENCE			
			COMPONENTS				
AB CD	1	51J120STS 51J145BSPS	ELB PIPE 90DEG 2"VICT#18 304S EL90DEG 3"VICT#18/304BRITISHTH				
AB CD	2A 2AA 2B 2BB	27E971C 27E971CG 27E972A 27E972AG	VICT COUP 2"GALV #75W/E GASKET E GASKET FOR 2" # 75 COUPLING VICT COUP 3"GALV#75 W/"E"GSKT E GASKET FOR 3" #75 COUPLING				
AB CD	3	5N2A52AS41 5N3A52AS41	NPT NIP 2X52 TOE 304SS SK40 NPT NIP 3X52 TOE 304 S/S SK40				
all	4	30F515	FLOW SENSOR SIGNET #P51530-PO				
all	5	30F519A	2" SADDLE FITTING #IR8S020				
all	5	5R3A1ECI	NPT SADDLE 3X1.25 CI 300# SB				
all	6	15N101	SEMPANSLOTSCR 10-24X1/4 GR-2				
all	7	5SL2ASFA	NPT ELBOW 90DEG 2" 304SS 150#				

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BMP110063/2017302A Page (3 / 3)

Pulse Flow Tank Fresh Water Piping

76028G3, 76039G3, 92048G4

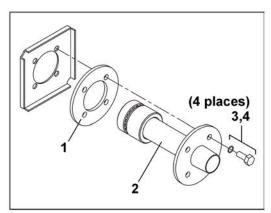
Parts List

Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

	Item	Part Number	Description	Comments
all	7	5SL3ASFA	NPT ELBOW 90DEG 3" 304SS 150#	
AB CD	8	5N2A04AS42 5N3A03AS42	NPT NIP 2X4 TBE 304SS NPT NIP 3X3 TBE 304 SS SK40	
AB CD	9	5N2A13AS42 5N3A13AS42	NPT NIP 2X13 TBE 304SS SK40 NPT NIP 3X13 TBE 304 S/S SK40	
AB CD	10 10	5S2ASFA 5S3ASFA	NPT TEE 2" 304SS 150# NPT TEE 3" 304S/S 150#	
all	11	5SB3A2ASFO	NPTHEXBUSH 3X2 304SS 150#	
all	12	5SB2A0KUFO	NPTHEXBUSH 2X1/2 316SS 150#	
all	13	53ACM0KKB	ASSY MALECON.5TX .5MP BRASS 68	
AB CD	14 14	96D088FBA 96D090FBA	2" BALVAL+ACT BRS N/C BONOMI 3"BALVAL+ACT BRS N/C SPRING RET BONOMI	
AB CD	15 15	5N2ACLSS42 5N3ACLSS42	NPT NIP 2XCLS TBE 304SS SK40 NPT NIP 3XCLS TBE 304SS SK40	
AB CD	16 16	5N2A21AS42 5N3A12AS41	NPT NIP 2X21 TBE 304SS SK40 NPT NIP 3X12 TOE 304S/S SK40	
all	17	5SP2ASFSC	NPT PLUG 2" SQ CORED 304SS	
all	18	5SB2A0PSFO	NPTHEXBUSH 2X3/4 304SS 150#	
all	19	5N0P04AS42	NPT NIP 3/4X4 TBE 304SS S40	
all	19	5N0P06AS42	NPT NIP 3/4X6 TBE 304SS SK40	
all	20	5SL0PSFA	NPTELB 90DEG 3/4 304SS 150#	
all	21	5N0P10AS42	NPT NIP 3/4X10 TBE 304SS SK40	
all	22	5SU0PSF	NPT UNION 3/4" 304SS 150#	
all	23	5N0P16AS42	NPT NIPPLE 3/4X16 TBE 304SS SK	
all	24	5N0P23AS42	NPT NIP 3/4X23 TBE 304SS SK40	
all	25	96D050A	3/4"BALLVALVE BRZ BONOMI 171N	
all	26	5N0PCLSS42	NPT NIP 3/4XCLS TBE 304SS SK40	
all	27	96J031D	3/4"PRESSREG SET 28# FEMXUN	
all	28	5S0PSFA	NPT TEE 3/4" 304SS 150#	
all	29	5N0P03AS42	NPT NIP 3/4X3 TBE 304SS SK40	
all	30	5SL0PSFK	NPTELB 45DEG 3/4 304SS 150#	
all	31	5SB0P0CSF0	NPTHEXBUSH 3/4X1/8 304SS 150#	
all	32	30N100	PRESSGAUGE 1/8"BACKCN.0-30PSI	
all	1	1	1.5" BALVAL S/S LLHDL BONOMI #700LL-1.5	



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Sparger to Tank

Find the assembly for your machine and the letter shown in the "Item" column. The components for your machine will show this letter or the word "All" in the "Used In" column. The numbers shown in the "Item" column are those shown in the illustrations.

letter or th	e word	All little Used if	Column. The numbers shown in the Item Column are i	Tose shown in the mustrations.
Used In	Item	Part Number	Description/Nomenclature	Comments
			Components	
	1	06 20297B	GASKET=DYE CBW STEAM FLANGE	
	2	W6 20298D	WLMT=7639 STEAM SPARGER	
	3	15K095A	HEXCAPSCR 3/8-16X1" BRASS	
	4	24G030N	ROLLED WASH.379ID NYLTITE 37W	
	5	5SL1ESFA	NPT ELB 90DEG 1.25 304SS 150#	
	6	5N1ECLSS42	NPT NIP 1.25XCLS TBE 304SS S40	
	7	52ZK00S001	TUBEFITMALCN7/8X1.25#14-20FTXB	
	8	06 40095B	7/8 TUBE=STEAM DUAL TANK REUSE	
	9	98P451	INSUL.STEAM 1+1/4"OD SPEEDWRAP	
	10	96D0011E	1.25"NPTBRZ N/C STEAMVALANGBD	

Pellerin Milnor Corporation

Litho in U.S.A.

13,14,15,16

24,25 26,27 28

Level Box Drain Options 76028 & 76039 G3 Tunnels



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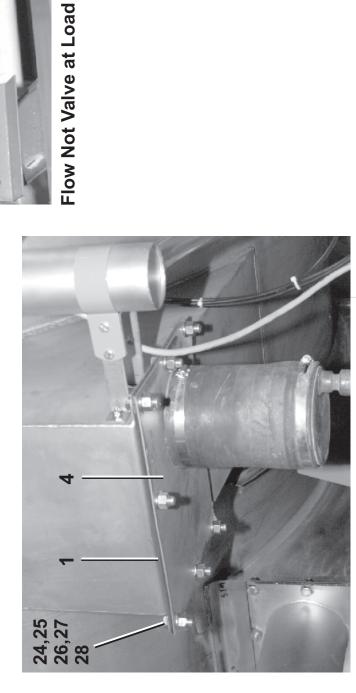




24,25 26,27 28

Level Box Flow to Next





Level Box Flow to Flowsplitter

Flow to Sewer Load

7

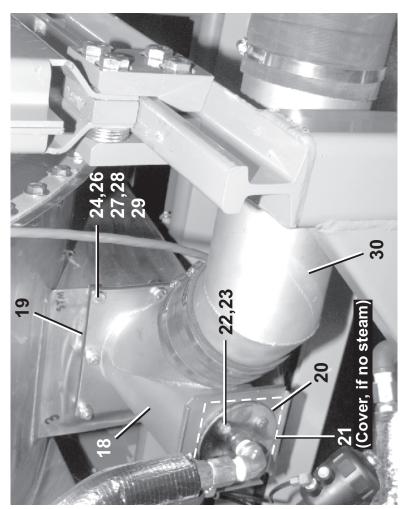
Air Cylinder See BMP970001.

24,25 26,27 28

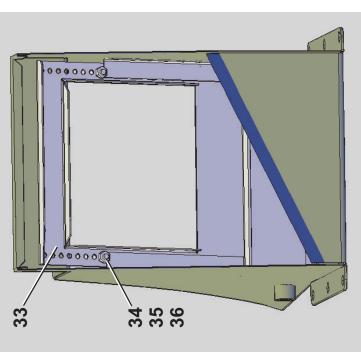
Level Box Drain Options 76028 & 76039 G3 Tunnels



Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400



Unit-to-unit Counter flow



Level Box Lid See BMP000079.

> Level Box Adjusting Plate Section A-A



24,25 26,27 28

31

30

Litho in U.S.A.

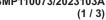


															Standard Baffle PulseFlow®II - Baffle															
	YOA IBYE BYE STANDING ON BENEFIT BOX	GASKET=DYE CBW STEAM FLANGE	PLATE FLANGE NO STEAM	HEXCAPSCR 3/8-16X1" BRASS	ROLLED WASH.379ID NYLTITE 37W	HEXNUT 1/2-13UNC2 SS18-8	HEX CAP SCR 1/2-13 UNC2 X 1 SS	LOKWASHER REGULAR 1/2 SS18-8	HEXNUT 1/2-13UNC2B BRASS	ROLLED WASH.50ID NYLTITE 50W	HXPSCR 1/2 WCX1.25S.S.	*7639=UNIT/UNIT CONNECT WLMT	HOSE=6"ID X 19"LG GATES #4175-	HOSECLAMP 6+5/8-8.5CAD#611-128	BAFFEL LEVEL BOX EURO CBW BAFFLE=LEVEL BOX G3 PF2	BUTSOKCAPSCR 1/4-20X3/8 SS18-8	LOCKWASHER MEDIUM 1/4 SS18-8	HEXNUT 1/4-20UNC2 SS18-8												
	Marsoc ao	06 20297B	06 20298A	15K095A	24G030N	15G225	15K146	15U310	15G234B	24G032N	15K153	W6 50057	60E319A19A	27A089	06 70008E 06 50097	15K032	15U181	15G170												
	70	20	21	22	23	24	25	26	27	28	59	30	31	32	333	34	35	36												
	-	ਰ ਫ	a	a	all	a	a	a	all	a E	a	all	a	a a		a	all	all												
c.) assigned to																														
etters (A, B, C, et belong to an asse) 	Comments		0	76028 & 76039	76039	76028 & 76039 76028	76039	76028	76028 & 76039									76028 76039											
is List—Level Box Drain Options או find the needed components. The item letters (A, B, C, et sed In" column to identify which components belong to an asse	mponents relate the parts list to the illustration.	Description Comments		000000000000000000000000000000000000000	ð	G 3	7639=LEVBX FLWTOSPLT LD AS G3 76028 & 76039 G3 ASSY=FLOWNOT VALVE AT LOAD 76028		G3 FLOWNOT VALVE AT LOAD INST=7639 FI OWNOT ® I OAD G3	UNIT COUNTRELW INS	COMPONENTS	7639=FLOWNOT VLV. LEVBX GSKT	WELD=DRAIN TO SEWER	7628G3 FLOW/NEX WELD	7639 FLOW/NEXMOD WELD=FLO/WEIR EAGLE	7628G3 FLONOT VAL WELDMENT	7639G3 FLONOT VAL WELD		AIR CYL FLOW NOT VALVE AIR CYL FLOW NOT VLV ASY 76039	HOSE=6"ID X 8.5"LG GATES #4175	HOSECLAMP 5+1/8-7"CADSCR#HS104	HOSE=5"ID X 9.5"LG GATES 75W;4 HOSE=6"ID X 8.5"LG GATES #4175	HOSECLAMP 3+1/8-6"SSSCR#HSS88 HOSECLAMP 5+1/8-7"CADSCR#HS104	NPT PLUG 1.25 SQCORED GALV CI	1/4"OD X.170"ID NYL TUBING	NUT 1/4"BR.HOLYOKE AND #61A-4	SLEEVE DELRIN 1/4"OD#60PT-4	TUBE INSERT .163"OD #63PT-4-40	FLOW BOX UNIT/UNIT G3	6"Y-BRANCH 42.5 SIDEOUT
Parts List—Level Box Drain Options sembly first, then find the needed components. The item letters (A, B, C, et red to in the "Used In" column to identify which components belong to an asset) assigned to components relate the parts list to the illustration.				X FLOW JUSEW LD ASY G3 76028 & OTONMOD LD 76028	LEVEL BOX FLOTONMOD LD ASSY G3		ASSY=7639 FLOWNOT @ LOAD G3		7639=UNIT/UNIT COUNTRFLW INS	COMPONENTS	06 50092 7639=FLOWNOT VLV. LEVBX GSKT	W6 70022 WELD=DRAIN TO SEWER		W6 70025		W6 50039A 7639G3 FLONOT VAL WELD	DUMP VALVE AIR CYL GASKET		60E319A08K HOSE=6"ID X 8.5"LG GATES #4175	27A083 HOSECLAMP 5+1/8-7"CADSCR#HS104	60E312A95 HOSE=5"ID X 9.5"LG GATES 75W;4 60E319A08K HOSE=6"ID X 8.5"LG GATES #4175	27A086S HOSECLAMP 3+1/8-6"SSSCR#HSS88 27A083 HOSECLAMP 5+1/8-7"CADSCR#HS104		60E004TE 1/4"OD X.170"ID NYL TUBING	53A059A NUT 1/4"BR.HOLYOKE AND #61A-4	53A500 SLEEVE DELRIN 1/4"OD#60PT-4	53A501 TUBE INSERT .163"OD #63PT-4-40	W6 70027 FLOW BOX UNIT/UNIT G3	H 42.5
Parts List—Level Box Drain Options Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item	1, 2, 3, etc.) assigned to components relate the parts list to the illustration.	Description			A6/LB005 / 633=LEVBX FLOWTOSEW LD ASY G3 / 6028 & A6/LB001 LEVBOX FLOTONMOD LD	A67LB001 LEVEL BOX FLOTONMOD LD ASSY G3	7639=LEVBX FLWTOSPLT LD AS G3 G3 ASSY=FLOWNOT VALVE AT LOAD	A66FN002 ASSY=7639 FLOWNOT @ LOAD G3	G66FN001 G3 FLOWNOT VALVE AT LOAD G66FN002 INST=7639 FI OWNOT @ I OAD G3	G65CF001 7639=UNIT/UNIT COUNTRFLW INS	COMPONENTS				W6 70025 W6 70022E		W6 50039A	DUMP VALVE AIR CYL GASKET	AIR CYL FLOW NOT VALVE AIR CYL FLOW NOT VLV ASY					NPT PLUG				TUBE INSE		6"Y-BRANCH 42.5

Level Box & Flow Options

BMP110073/2023103A

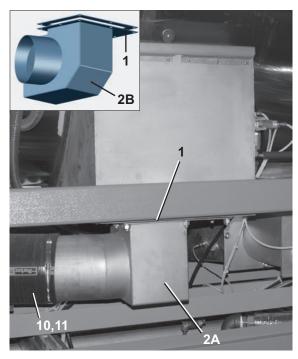
92048G4 PulseFlow® Tunnels, 76039G3 PulseFlow®II(EXD) Tunnels



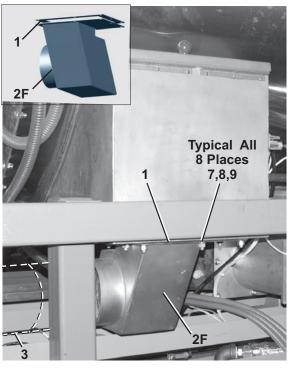


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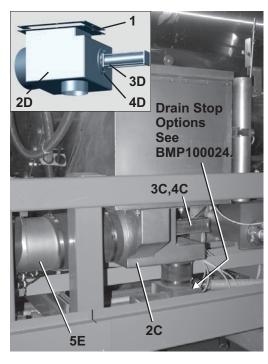
Litho in U.S.A.



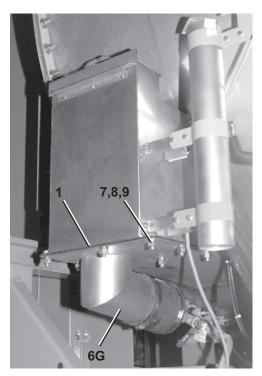
Flow to Next Module (00A,00B)



Flow to Load Offset



Flow to Next Module or Sewer



Flow to Sewer

Level Box & Flow Options

BMP110073/2023103A (2 / 3)

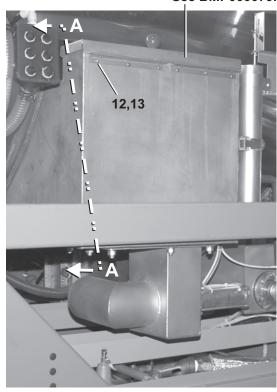
92048G4 PulseFlow® Tunnels, 76039G3 PulseFlow®II(EXD) Tunnels

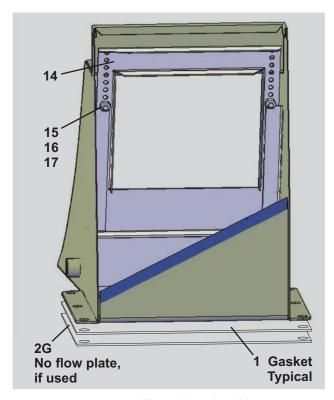


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See BMP000079.





Level Box Adjusting Plate Section A-A

Level Box & Flow Options

BMP110073/2023103A

92048G4 PulseFlow® Tunnels, 76039G3 PulseFlow®II(EXD) Tunnels



Litho in U.S.A.

Parts List—Level Box & Flow Options
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

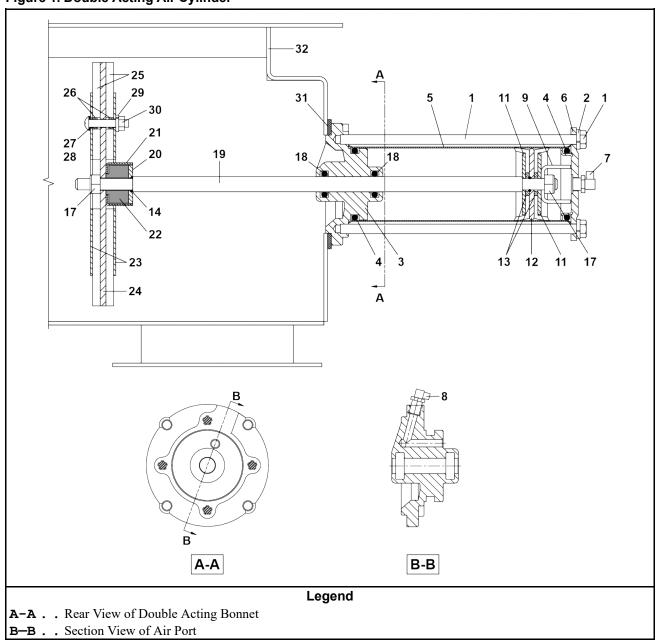
Used In	Item	Part Number	Description	Comments			
			ASSEMBLIES				
	A GLB63001 B G67LB001 C GLB63002 D G66FN002 E GLB63003 F GLB63003 G GLB63005		9248 LEVELBOX FLO NEXT MOD INS INST=LEVEL BOX FLOTONEXT MOD PF2 INST=9248 FLOWNOT @ LOAD INST=7639 PF2 FLOWNOT @LOAD FLOW TO LOAD AT UNIT CONN 7639 PF2 FLOW TO LOAD AT UNIT CONNECT INST=9248 FLOW TO SEWER @LD RHT	92048 Tunnels 76039 PFII/EXD Tunnels 92048 Tunnels 76039 PFII/EXD Tunnels 76039 PFII/EXD Tunnels 92048 Tunnels 92048 Tunnels			
			COMPONENTS				
all	1	06 50092	7639=FLOWNOT VLV. LEVBX GSKT				
A B C D F G	2A 2B 2C 2D 2F 2G	W6 30124 W6 50200 W6 50039D W6 30272 W6 30131 06 40528	9248 FLO NEXT MOD BOX WLMT WLMT=7639 FLOW TO NEXT MOD-PF2 9248 FLOWNOT AT BREAK WELD WLMT=8" FLOW/FLOWNOT 9248 FLO NEXT MOD WLMT OFFSET G3 LEVEL BOX PLATE				
C D	3C 3D	A66AC001 A65AC003	AIR CYLINDER AIR CYLINDER	92048 Tunnels 76039 PFII/EXD Tunnels			
C D	4C 4D	02 18660A 02 18931F	DUMP VALVE AIR CYL GASKET GASKET=DUMPVALVE-1/60+72WEHU				
Е	5E	W6 30126	8" FLO TO NEXT MOD OFFSET PIPE				
G	6G	W6 70022	WELD=DRAIN TO SEWER				
all	7	15G234B	HEXNUT 1/2-13UNC2B BRASS				
all	8	15U310	LOKWASHER REGULAR 1/2 SS18-8				
all	9	24G032N	ROLLED WASH.500ID NYLTITE 50W				
all all all all all all	10 10 10 10 10 10	60E328A04K 60E328A07K 60E328A10A 60E328A12A 60E328A18A 60E328A22A 60E328A32A	HOSE+8"IDX4+1/2"LONG -4.5 HOSE+8"IDX7+1/2"LONG -7.5 HOSE+8"IDX10"LONG -10 HOSE+8"IDX12"LONG -12 HOSE-8"1DX18"LONG -18 HOSE+8"IDX22"LONG -22 HOSE+8"IDX32"LONG -32	4.5" LONG 7.5" LONG 10" LONG 12" LONG 18" LONG 22" LONG 32" LONG			
all	11	27A092	HOSECLAMP S.S.SCR 7+1/8-10"				
all	12	15N130	RDMACSCR 10-24UNC2A X 1/2 SS18				
all	13	15G126	HXLOCKNUT NYLON 10-24 UNC SS N				
all all	14 14	06 30130 06 50097	BAFFEL LEVEL BOX 9248 CBW BAFFLE=LEVEL BOX G3 PF2	92048 Tunnels 76039 PFII/EXD Tunnels			
all	15	15K031	BUTSOKCAPSCR 1/4-20X1/2 SS18-8				
all	16	15U181	LOCKWASHER MEDIUM 1/4 SS18-8				
all	17	15G170	HEXNUT 1/4-20UNC2 SS18-8				

Air Cylinder Flow-Not Valve

1 of 2

76039PF2, 92048PF

Figure 1. Double Acting Air Cylinder



76039PF2, 92048PF

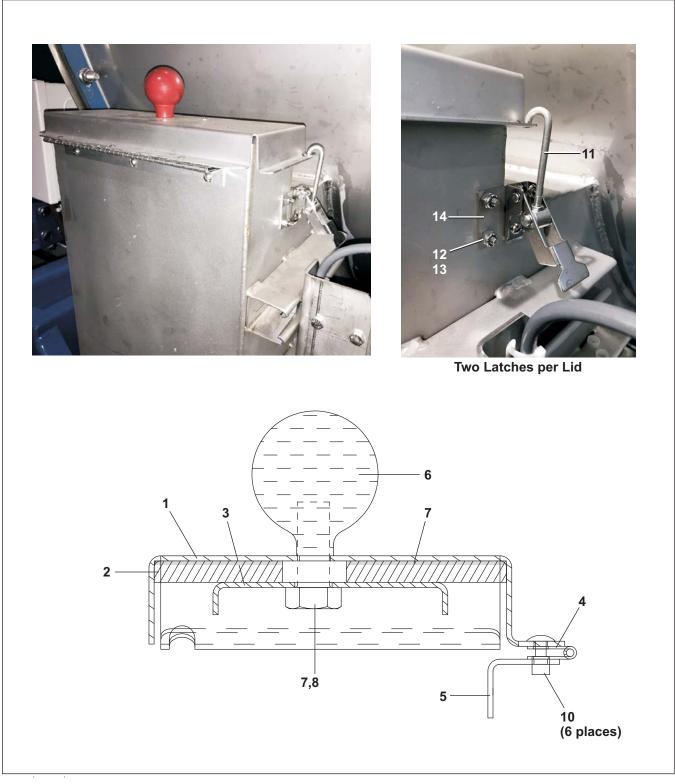
Table 1. Parts List—Air Cylinder Flow-Not Valve

Find the assembly for your machine and the letter shown in the "Item" column. The components for your machine will show this letter or the word "all" in the "Used In" column. The numbers shown in the "Item" column are those shown in the illustrations.				
Used In	Item	Part Number	Description/Nomenclature	Comments
Reference Assemblies				
	Α	ALB63006	ASSY=8" FLOW/NOT PF2	
	В	ALB63006A	ASSY=7639 PF2 FLOWNOT @LOAD	
	С	A65AC003	ASSY=9248 AIR CYL FLOW/NOT VALVE+7639 PF2	ASSEMBLY, ITEMS 1-30
Components				
all	1	02 10585	TIE BOLT=5/16-18X7.875LG SS	
all	2	15U205	LOCKWASHER MEDIUM 5/16" 18-8SS	
all	3	X6 20708A	DOUBLE ACTING VALVE BONNET	
all	4	60C132	ORING 2"IDX3/16CS BUNA70 #329	
all	5	02 02068	AIRCYL-STAINLESS=DUMP VALVE	
all	6	02 02101S	CYLINDER HEAD TAP.HOLE (SS)	
all	7	96PVQC24249	QUICK CONNECT FITTING 1/4"" NPT X 1/4" TUBING 90	
all	8	96PVQC18249	QUICK CONNECT FITTING 1/8" NPT X 1/4" TUBING 90	
all	9	03 01313S	+STOP=AIRCYL W/2+11/16STR.SS	
all	10	02 02194	PISTON CUP=DUMPVALVE 2+3/8"	
all	11	02 02085	UP WASHER=2"OD=PISTON CUP	
all	12	02 02105B	2.38"ACYL BRASS PISTONCUP WSHR	
all	13	02 02185	WASHER=PISTON CUP COMP LIMIT	
all	14	60C106	ORING 5/16ID 1/16CSBUNA70#011	
all	17	15G220	NUTLOK THINHX 3/8-24 SS/NYL	
all	18	60C108	ORING 1/2IDX3/16CS BUNA70#310	
all	19	06 50082B	9248 FLOW/NOT VALVE STEM	
all	20	02 16021E	WASHER 3/8IDX1.250D DUMPVAL	
all	21	02 16021D	DUMP VALVE BUMPER RETAINER	
all	22	02 16021C	BUMPER=DUMP VALVE BONNET	
all	23	06 50083C	9248 FLOW/NOT GASKET RETAINER	
all	24	06 50084A	9248 FLOW NOT CUP	
all	25	06 50083B	9248 FLOW/NOT GASKET	
all	26	27B260156S	SPCRSLD.26ID.375OD.156L 316SS	
all	27	24G020N	ROLLED WASH.252ID NYLTITE 25W	
all	28	15N196	PHILRDMACSCR 1/4-20UNC2X1+1/4S	
all	29	15U181	LOCKWASHER MEDIUM 1/4 SS18-8	
all	30	15G164	HX THIN LOCKNUT NYL1/4-20 SS	
all	31	02 18931F	GASKET=DUMPVALVE-1/60+72WEHU	
all	32	W6 30272	WLMT=8" FLOW/FLOWNOT	

BMP180013/2018224A Page (1 / 2)

Level Box Lid & Latches

76028G3, 76039G3, 92048G4 Tunnels



BMP180013/2018224A Page (2 / 2)

Level Box Lid & Latches

76028G3, 76039G3, 92048G4 Tunnels

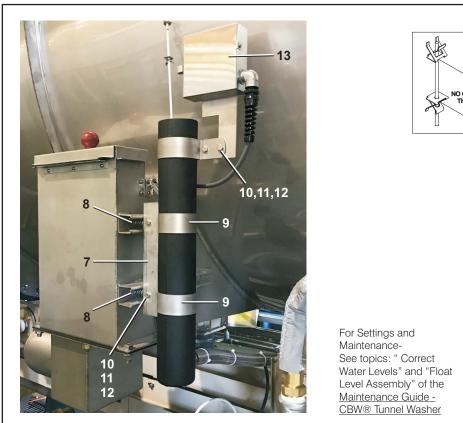
Parts List

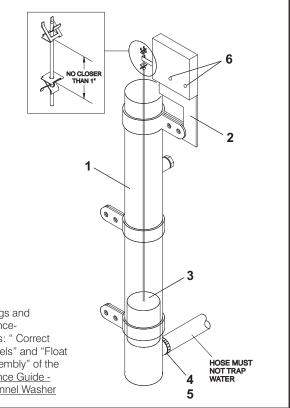
Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
	Α	A65LL001A	7639 LEVELBOX LID ASSY W/LATCH	76028 & 76039 Tunnels
	В	A65LL002	7639=PF2 LEVELBOX LID ASSY W/LATCH	76039 PulseFlow® II(EXD)
	С	ALL63001A	9248 LEVELBOX LID ASSY W/LATCH	92048 Tunnels
A B C	1 1 1	06 50135 06 50130 06 30110	7639 LEVELBOX LID W/LATCH 7639=PF2 LEVELBOX LID W/LATCH 9248 LEVEL BOX LID COVER W/LATCH	
A B C	2 2 2	06 50105 06 50132 06 30104	7639=LEVELBOX LID GASKET 7639=PF2 LEVELBOX LID GASKET 9248 LEVEL BOX LID GASKET	
A B C	3 3 3	06 50117 06 50131 06 30114	7639 LVL BOX GASKET SUPPT 7639 PF2 LVL B0X GASKET SUPPORT 9248 LEVEL BOX GASKET SPPT	
all	4	06 50104	7639=SOAP CHUTE HINGE	
AB C	5 5	06 50103 06 50110	7639=BRACKET=SOAP CHUTE HNGE 9248=BRKT=SOAPCHUTE HINGE	
all	6	12P100	BALLKNOB RD PLASTIC DAVIES#45H	
all	7	15K086A	HEXCAPSCR 3/8-24 UNFX3/4 SS18-	
all	8	15U245	FLTWASH 3/8 STD COMM 18-8 SS	
all	9	20C018	ADHESIVE-3M #1357-QT CN	
all	10	15J004	TUBULAR RIVET TRS#40988 3/16"	
all	11	27A009C	LATCH-ADJUSTABLE 304 S/S	
all	12	15N117	RDMACSCR 10-24UNC2X3/8SS18-8	
all	13	15G126	HXLOCKNUT NYLON 10-24 UNC SS N	
all	14	06 70008W	LEVEL BOX LATCH MNT	

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Level Switch

76028G3, 76039G3, 92048G4 Tunnels





Parts List

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
	Α	G67LS003	ADD LEVEL SW BLACK POLY	
			COMPONENTS	
all	1	02 14450	TUBE=FLOAT CHAMBER	
all	2	02 15097C	BRACKET LEVCONT PER PRINT	
all	3	SA 02 011	*FLOAT ASSY L=25"-STD LEVEL	
all	4	60E013	TYGON TUBING 1"IDX1.25"OD	
all	5	27A090S	HOSECLAMP 13/16-1.5"SS#64016B	
all	6	15P175	TRDCUT-F HXHD 1/4-20UNC2AX1/2	
all	7	06 70380	LEVEL TUBE MNT BRKT	
all	8	27A0625NUT	CLAMPNUT 1/4-20 W/SHORT SPRING	
all	9	02 15642S	CLAMP=3"FLOAT CHAMBER DAS	
all	10	15K039	HXCAPSCR 1/4-20UNC2AX3/4 GR5 Z	
all	11	15U181	LOCKWASHER MEDIUM 1/4 SS18-8	
all	12	15G165	HXNUT 1/4-20UNC2BSAE ZC GR2	
all	13	ELL000MK2	WATER LEV SW ASSY: 1 UP+ 1LO	

Litho in U.S.A.

Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Description

Part Number

Item

Used In

Parts List—Drain Stops

ASSY=DRAIN/STOP WEIR TO SEWER INST=DRAIN/STOP WEIR TO FLOWSP ASSY=DRAIN/STOP WEIR TO FLOWSP INST=DRAIN/STOP F/N TO SEWER ASSY=DRAIN/STOP F/N TO SEWER

G64DV005 A64DV005 G64DV006 A64DV006 G64DV007 A64DV007

C C B B A A

INST=DRAIN/STOP WEIR TO SEWER

---ASSEMBLIES-

Comments

Drain Stops

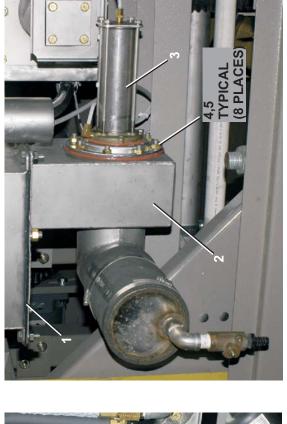
76028 & 76039 G3 Tunnels, 92048 G4 Tunnels



Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400



(A) Drain Stop: Flow to Sewer



(B) Drain Stop: Flow to Flow Splitter

HOSE 5"IDX7.5"LG GATES75W4175E

60E312A75

27A077D

T-BOLT HOSECLAMP 5.31-5.62"SS

LOCKWASHER MEDIUM 3/8 SS18-8

HEXNUT 3/8-16UNC2 BRASS

W6 70021 W6 70020 AVD48701

000000000

15G206B

15U260

WLMT=DRAIN STOP F/N TO SEWER 4"DUMP BONNET&AIRCYL DBL-ACT

WLMT=DRAIN/WEIR TO SPLITTER

WLMT=DRAIN/WEIR TO SEWER

W6 70021A

06 50092



(C) Drain Stop: Flow Not to Sewer

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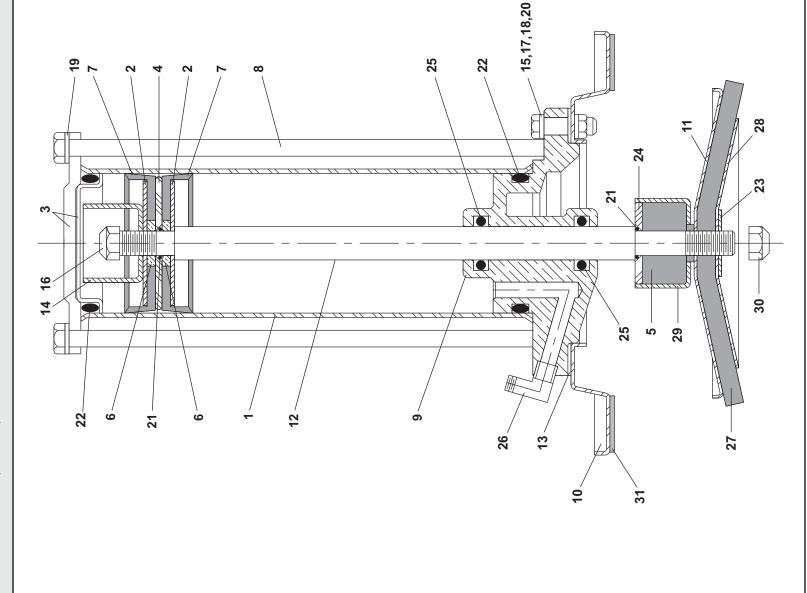
Drain Stop Bonnet, 4" Double Acting 76028G3, 76039G3, 9248G4



Pellerin Milnor Corporation
P. O. Box 400, Kenner, LA 70063-0400



Used In	Item	Part Number	Used In Item Part Number Description	Comments
			- SEMBI IES	
	A	AVD48701	4"DUMP BONNET&AIRCYL DBL-ACT	
			COMPONENTS	
Β	_	02 02068	AIRCYL-STAINLESS=DUMP VALVE	
all	2	02 02085	UP WASHER=2"OD=PISTON CUP	
all	က	02 02101S	CYLINDER HEAD TAP.HOLE (SS)	
all	4	02 02105B	2.38"ACYL BRASS PISTONCUP WSHR	
all	2	02 16021H	BUMPER=DMPVAL BON'T RED SILC	
all	9	02 02185	WASHER=PISTON CUP COMP LIMIT	
all	7	02 02194	PISTON CUP=DUMPVALVE 2+3/8"	
all	80	02 10585	TIE BOLT=5/16-18X7.875LG SS	
all	<u>о</u>	X6 20708A	DOUBLE ACTING VALVE BONNET	
all	10	02 14447	BONNET=4"S/S DUMP VALVE	
all	7	02 14446	DISC-4"S/S DUMP VALVE	
all	12	02 160211	DUMPVAL STEM-4"+8"316SS	
all	13	02 18932B	GASKET=DUMPVAL 1/8"RED SILIC	
all	15	15G168	SQNUT 1/4-20UNC2 SS18-8	
all	16	15G220	NUTLOK THINHX 3/8-24 SS/NYL	
all	17	15K041S	HEXCAPSCR 1/4-20UNC2AX1 SS18-8	
all	18	15U181	LOCKWASHER MEDIUM 1/4 SS18-8	
all	19	15U205	LOCKWASHER MEDIUM 5/16" 18-8SS	
all	20	24G020N	ROLLED WASH.252ID NYLTITE 25W	
all	21	60C106V	ORING 5/16IDX1/16CSVITON#011	
all	22	60C132V	ORING 2"ID3/16CS VITON75 #329	
all	23	15U245	FLTWASH 3/8 STD COMM 18-8 SS	
all	24	02 16021E	WASHER 3/8IDX1.250D DUMPVAL	
all	25	60C108V	ORING 1/2IDX3/16CS VITON #310	
all	26	53A031B	BODY-EL90MALE.25X1/8 #269C-42B	
all	27	02 11740D	SEAT=4"S/S VENT=RED SILICONE	
all	28	02 14446B	DISC=4"S/S DV=VENT	
all	59	02 16021D	DUMP VALVE BUMPER RETAINER	
all	30	15G219A	LOKNUT 3/8-24 NF2 18-8 SS	
all	31	02 14447B	GASKET=BON 4"S/S DPVAL RED	



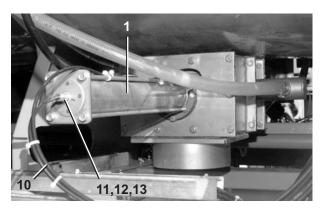
BMP000072/2018013A Page (1 / 2)

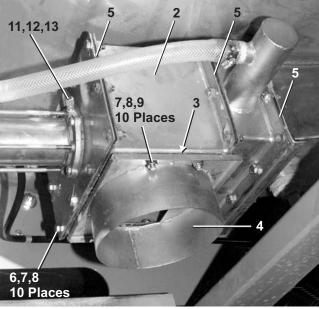
Dump Valve Installation

76032, 76028, 76039, 92048 Tunnels



76028, 76039, 92048 Tunnels





76032 Tunnels

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Dump Valve Installation

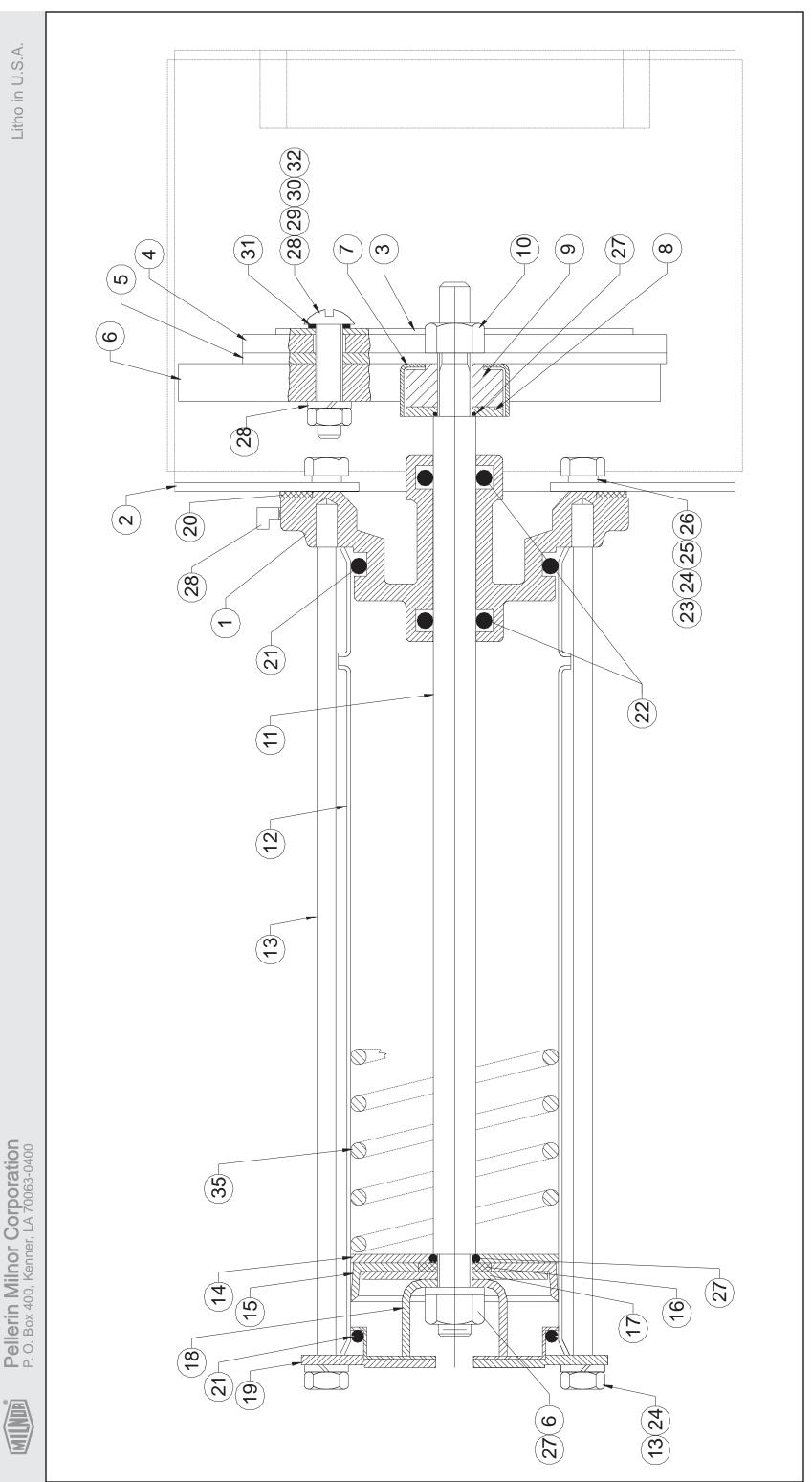
76032, 76028, 76039, 92048 Tunnels

Parts List

Used In	Item	Part Number	Description	Comments
			ASSEMBLIES	
	A	G64DV001A	N/C 4+1/2X8 DUMP VALVE ASSY	76032 G1 NORMALLY CLOSED
	В	G64DV004	8"DUMPVAL NC SHORT G3	76028G3, 76039G3 & 92048G4 TUNNELS NORMALLY CLOSED- SHORT
	_	-	COMPONENTS	
A B	1	A64AC001A A64DV004	N/C DUMP VAL AIR CYL 4+1/2X8 BONNET DUMPVAL NC G3	
A B	2 2	W6 40055 W6 40055A	*DUMP VALVE BODY WLDT 4+1/2X8 DUMP VALVE WLMT SHORT G3CBW	
A B	3	06 40069F 06 40069J	DYE DUMPVALVE ADAPT GASKET G1 DUMPVAL ADAPT GASKET G3	
A B	4 4	W6 40076 W6 40072	*STRAIGHT DUMP V.ADAPT WLMT WLMT=DUMP VALVE HOSE CONN ADAPT	
A B	5 5	06 40069E 06 40069K	4-1/2X8 DYE DUMPVALVE GASKET 4+1/2 X 8 DUMP VALVE GASKET RED SILICON	E
all	6	15K096	HEXCAPSCR 3/8-16UNC2X1SS18-8	
all	7	15U260	LOCKWASHER MEDIUM 3/8 SS18-8	
all	8	15G206	HEXNUT 3/8-16 UNC2 SS 18-8	
all	9	15K086D	HXCAPSCR 3/8-16 UNC2A X 7/8"	
all	10	15G206	HEXNUT 3/8-16 UNC2 SS 18-8	
all	11	15U260	LOCKWASHER MEDIUM 3/8 SS18-8	
all	12	60E004TE	1/4"OD X.170"ID NYL(BLK)TUBING	
all	13	53A059A	NUT 1/4"BR.HOLYOKE AND #61A-4	
all	14	53A500	SLEEVE DELRIN 1/4"OD#60PT-4	
all	15	53A501	TUBE INSERT .163"OD #63PT-4-40	

76028G3, 76039G3, & 92048G4 Tunnel **Dump Valve Bonnet**





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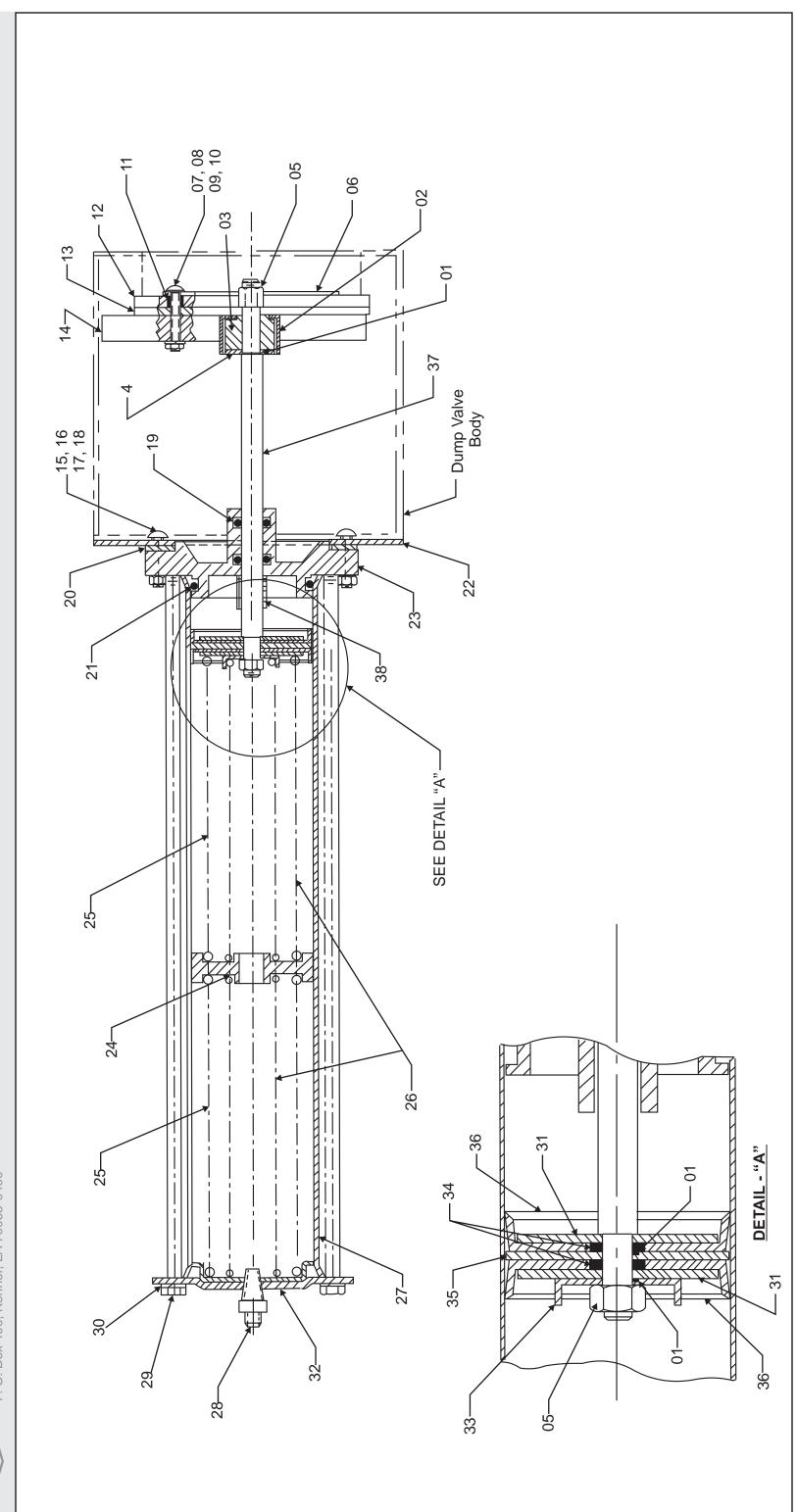
Parts List—Dump Valve Bonnet				
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to	Used In	Item Part Nu	mber D	Jesci
assembles are referred to in the "Used in" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.	=			=

Comments																														
Description		LOKWASHER MEDIUM 5/16 ZINCPL	SQNUT 1/4-20UNC2 SS18-8	ROLLED WASH.252ID NYLTITE 25W	ORING 5/16IDX1/16CSVITON 11011 ORING 5/16ID 1/16CS BUNA70#011	BODY-EL90MALE.25X1/8 #269C-42B	HX THIN LOCKNUT NYL1/4-20 SS	LOCKWASHER MEDIUM 1/4 SS18-8	RDMACHSCR 1/4-20UNC2 X 1-1/2 S	ROLLED WASH.252ID NYLTITE 25W	MALE90ELL 1/4X1/8 COMPFIT WH#6	LOCKWASHER MEDIUM 5/16" 18-8SS	SPRING=2.11ODX6.5FL 64#/"																	
Item Part Number	1	15U210	15G168	24G020N	60C106V 60C106	53A031B	15G164	15U181	15N196S	24G020N	53A031	15U205	03 06429																	
Ilsed in	_	24	25	26	27 27	78	29	30	33	32	33	34	35																	
		<u>a</u>	<u>a</u>	<u>a</u>	<u>B ></u>	a	all	<u>a</u>	<u>a</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>a</u>																	
(A, B, C, etc.) assigned to	ng to an assembly. The item	Comments																												
Its List—Duilly valve Bolliner In find the needed components. The item letters	assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.	Description		AOOEMIBLIEO	BONNET DUMPVAL NC G3	DOUBLE ACTING VALVE BONNET	DUMP VALVE COVER PLT G3CBW	DUMP VALVE GASKET RETAINER	DUMP VALVE CUP GASKET	DUMP VALVE CUP	CUP ALIGNMENT STRIP	DUMP VALVE BUMPER RETAINER	WASHER 3/8IDX1.250D DUMPVAL	BUMPER=DUMP VALVE BONNET	NUTLOK THINHX 3/8-24 SS/NYL	DUMPVAL STEM 9" G3	AIRCYL-STAINLESS=DUMPVALVE	TIE BOLT=5/16-18X7.875 PLTD	2.38"ACYL BRASS PISCUP WASHR	PISTONCUP=DUMPVALVE 2+3/8"	WASHER=PISTON CUP COMP LIMIT	UP WASHER=2"OD=PISTON CUP	STOP=AIR CYL W/2+11/16STROKE	CYLHEAD W/TAPPED HOLE	GASKET=DUMPVALVE-1/60+72WEHU	ORING 2"IDX3/16CS BUNA70 #329	ORING 1/2IDX3/16CS VITON #310	BUTSOKCAPSCR 1/4-20UNCX1+1/4 S		
רג וssembly first, the	ferred to in the "Us to.) assigned to con	Dart Nimber	\top		A64DV004	X6 20708A		06 40064	06 40065	06 40066	06 40067	02 16021D	02 16021E	02 16021C	15G220	02 16021K	02 02068	. 02 10585D	02 02105B	02 02194	02 02185	02 02085	03 01313	02 02101	02 18931F	60C132	60C108V	15K042K		
the correct a	nblies are refers (1, 2, 3, et	T L	+		۷	_	2	က	4	2	9	7	8	6	10	7	12	13	14	15	16	17	18	19	20	21	22	23		
Find 1	asser	2 0001	Ď O			all	a	a	all	all	all	_ ਜ਼ਿ 14	all 6	all	a	all	all	all	all	all	all	all	all	all	all	all	all	all		

Dump Valve Bonnet - Normally Closed 76032 G1 Tunnels







Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400

Assembly	Comments																																	
Parts List, cont.—Normally Closed - Dump Valve Ass	Description	91142#TIE BOLT=5/16-18X17 .188 S/S	LOCKWASHER MEDIUM 5/16" 18-8SS	91522B PISTON CUP WASHER 3"AIR CYL	88531# CYLHEAD TAPHOLE - 3" ARCYL S/S	73171A WASHER=2 WAY BRAKE CYL	87506B 3" AIRCYL PSTN CUP COMPLMTWSH	92066#MACH=3" ACYL BRASS PISCUP WSH	97327B PISTON CUP 2+7/81D CYLINDER	96426B N/C DBL ACT DUMP VALVE STEM	SPACERROLL .51ID .813L.062T SS																							
Parts List, c	Part Number	02-105851	15U205	03-01618	03-01622A	02-18651	03-01630	X3-01619A	02-19302	06-40068A	27B240SS																							
	Item	59	30	31	32	33	8	32	36	37	38																							
	Used In	all	all	all	all	all	all	all	all	all	all																							
pe	ers (A, B, C, etc.) assigned to	and to all assembly. The refit	Comments																															
Parts List—Dump Valve Bonnet - Normally Closed	ded components. The item letter to identify which components be	te the parts list to the illustration.	Description	ASSEMBLIES	91183C N/C DUMP VAL AIR CYL 4+1/2X8	-COMPONENTS	5/16ID 1/16CS BUNA70#011	92632B DUMP VALVE BUMPER RETAINER	92051B BUMPER=DUMP VALVE BONNET	94323B WASHER 3/8IDX1.250D DUMPVAL	02Z LTHX THIN LOKNUT 3/8-24 SSNTE	87037B DUMP VALVE GASKET RETAINER	01Z HX THIN LOCKNUT NYL1/4-20 SS	LOCKWASHER MEDIUM 1/4 SS18-8	RDMACHSCR 1/4-20UNC2 X 1-1/2 SS18-8	ROLLED WASH.252ID NYLTITE 25W	SPCRSLD.26ID.3750D.156L 316SS	92371B DUMP VALVE CUP GASKET	94271B DUMP VALVE CUP	96372B CUP ALIGNMENT STRIP	HEXCAPSCR 5/16-18X1 18-8SS	HEXNUT 5/16-18UNC2 SS18-8	LOCKWASHER MEDIUM 5/16" 18-8SS	ROLLED WASH.312ID NYLTITE 31W	ORING 1/2IDX3/16CS BUNA70 #310	91441B N/C DBL ACT DYE DMP VLV GSKT	ORING 2.5ID3/16CS BUNA70 #333	91142B N/C DUMP VALVE COVER PLATE	90516#-C DBLE ACTING VALVE BONNET	91183B 2+7/8 AIR CYL SPRING DIVIDER	96471#C DRAIN VALVE-INNER SPRINGSS	96471#C DRAIN VALVE-OUTER SPRINGSS	94266# TUBE 2+7/8 AIR CYL 16.63"	BODYMALECON .25X.25 COMP #B68A-4B
-Dump Val	en find the nee Ised In" column	mponents rela			91183C N		ORING 5/16ID	92632B	92051B	94323B	02Z LT	87037	01Z H	LOCK	RDM	ROL	SPC	92	94.	963	出	出	9	8	P.	91	P.	91,	906	9118	964	964	94,	BOI
Parts List—Dump Val	sembly first, then find the nee	assigned to components rela	Part Number		A64AC001A 91183C N		60C106 ORING !	02-16021D 92632B	02-16021C 92051B	02-16021E 94323B	15G220 02Z LT	06-40064 87037	15G164 01Z H	15U181 LOCK	15N196S RDM	24G020N ROL	27B260156S SPC	06-40065	06-40066 94;	06-40067 963	15K062 HE	15G186 HE	15U205 LC	24G027N RC	60C108 OF	06-40069G 91	60C134 OF	06-40063A 91	X6-20708B 905	06-20537 9118	06-20529S 9647	06-20528S 964	03-01621A 94;	53A008B BOI
Parts List—Dump Val	Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components helped to an assembly. The item	1, 2, 3, etc.) assigned to components rela	Item Part Number																															

Temperature Probe

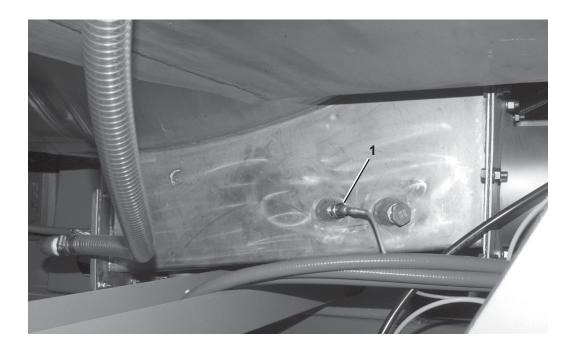
76039G3 Tunnels

BMP110077/2020355A (1 / 1)



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Parts List—Temperature Probe

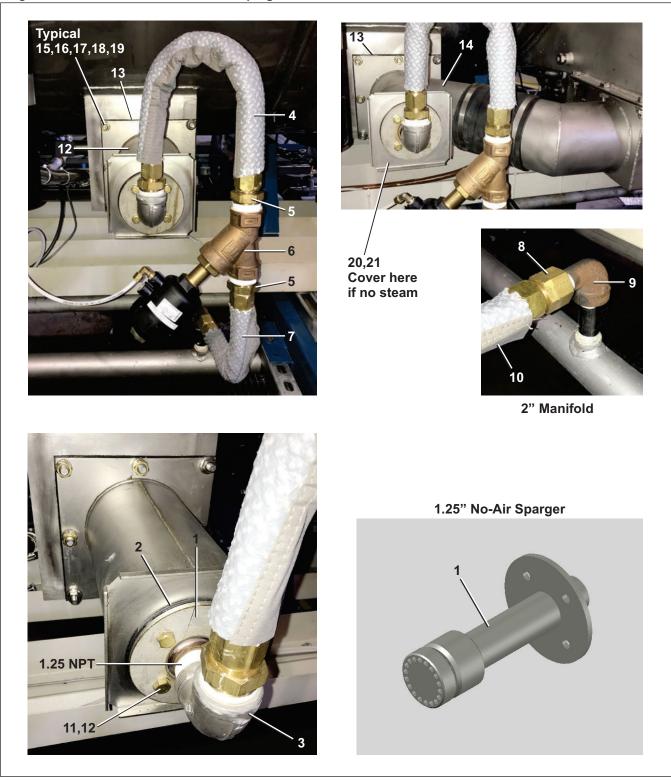
Used In	Item	Part Number	Description	Comments
			COMPONENTS	
all	1	30R0043PSA	TEMPERATURE PROBE ASSY=S/S	

BMP180015/2023103A Page (1 / 4)

Steam Components with No-Air Sparger

76028G3, 76039G3 Tunnels

Figure 1: Steam Inlet with 1.25" No-Air Sparger

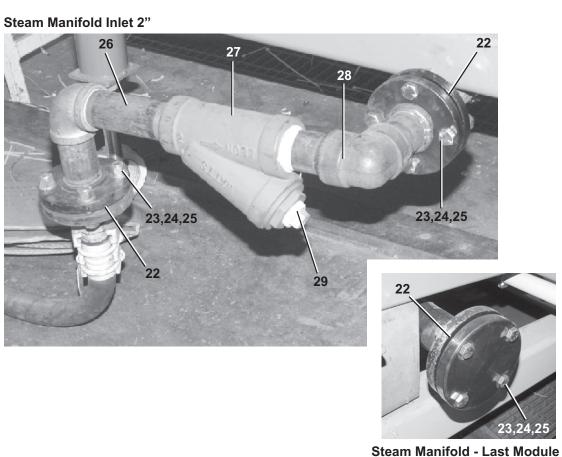


BMP180015/2023103A Page (2 / 4)

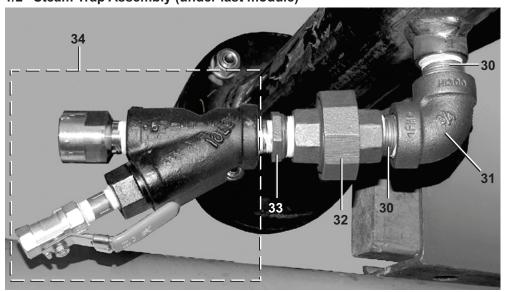
Steam Components with No-Air Sparger

76028G3, 76039G3 Tunnels

Figure 2: Steam Manifold Inlet and Steam Trap



1/2" Steam Trap Assembly (under last module)



BMP180015/2023103A Page (3 / 4)

Steam Components with No-Air Sparger

76028G3, 76039G3 Tunnels

Parts List

Used In	Item	Part Number	Description	Comments
			REFERENCE ASSEMBLIES	
	А	G67SV001J	G3 STM INLET NON AIR STEAM SPARGER	BRASS COMPONENTS
	В	G67VS001A	INST=7639 PF2 CAP FLOWINLET W/STEAM	
	С	G67VS002	INST=PF2 STM+H2O Y-BRANCH	
	D	A67SV005	7639/28G3 STM INLET ASSY	
	E	A67SV004B	7628/39G3 STM TRAP ASSY	
	F		REFERENCE	STEAM OPTION
			COMPONENTS	
all	1	W6 20298D	WLMT=7639 STEAM SPARGER	
all	2	06 20297C	GASKET=CBW SPRGR INLET FLNG	
all	3	5SL1ESFA	NPT ELB 90DEG 1.25 304SS 150#	
all	4	06 40093D	7/8 TUBE=U-SHAPE STEAM	
A F	5 5	52ZK00S001 52ZK00S002	TUBEFITMALCN7/8X1.25 #14-20 FTX-B TUBEFITMLCN7/8X1.25 #14-20 FTX-SS	
all	6	96D0011E	1.25"NPTBRZ N/C STEAMVALANGBD	
all	6	96D0011S	1.25"NPT S/S N/C STEAMVAL ANGBODY	
all	7	06 40093C	7/8 TUBE=90 DEG STEAM	
all	8	52ZL00S001	TUBEFITFEMCN7/8 X 3/4#14-GTX-B	
all	9	5SL0PFSC	NPTELB 90DEGSTRT 3/4BLKSTL3000	
all	10	98P450	INSUL.STEAM 7/8"OD SPEEDWRAP	
A F	11 11	15K095 15K095A	HXCPSCR 3/8-16UNC2AX1 GR5 ZINC HEXCAPSCR 3/8-16X1" BRASS	
all	12	24G030N	ROLLED WASH.379ID NYLTITE 37W	
all	13	06 50095	FLANGE GASKET=8" TUBE 7639 PF2	
all	14	W6 80095A	8" Y-BRANCH SPARGER TUBE WLMT-PF2	
all	15	15K153	HXCAPSCR 1/2 -13 X 1 +1/4 SS	
all	16	24G032N	ROLLED WASH.500ID NYLTITE 50W	
all	17	15U310	LOKWASHER REGULAR 1/2 SS18-8	
all	18	15G234B	HEXNUT 1/2-13UNC2B BRASS	
all	19	15G225	HEXNUT 1/2-13UNC2 SS18-8	
all	20	06 20298A	PLATE FLANGE NO STEAM	
all	21	06 20297B	GASKET=DYE CBW STEAM FLANGE	
all	22	51KE2ANASA	2" SPIRAL GASKET #FGCCG-1GG	
all	23	15K225	HEXCAPSCR 5/8-11X2+1/2	
all	24	15U315	LOKWASHER MEDIUM 5/8 ZINCPL	
all	25	15G238	HXNUT 5/8-11UNC2B SAE ZINC GR2	
Α	26	W6 40442	2" MAIN STM MNFLD INLET	

BMP180015/2023103A Page (4 / 4)

Steam Components with No-Air Sparger

76028G3, 76039G3 Tunnels

Parts List

Used In	Item	Part Number	Description	Comments
F	26	W6 40442S	2" MAIN STM INLET S/S	
all	27	51T062	Y-STRAINER 2" NPT CAST IRON	
A F	28 28	W6 20740B W6 20740S	ADPT=Y-STRAINER ADPT=Y-STRAINER S/S	
all	29	5SP1ESFSS	NPT PLUG 1.25 SQ SOLID 304SS	
all	30	5N0PCLSF82	NPT NIP 3/4XCLS TBE BLKSTL S80	
A F	31 31	5SL0PMIA 5SL0KSFA	NPTELB 90DEG 3/4 BLKMAL 300# NPTELB 90DEG 1/2 304SS 150#	
all	32	5SU0PMI	NPT UNION 3/4" BLKMAL 300#	
A F	33 33	5SB0P0KMF0 5SB0P0KSF0	NPTHEXBUSH 3/4X1/2 BLKMAL 150# NPTHEXBUSH 3/4X1/2 SS304 150#	
all	34	51T60B00QJ	1/2"STMTRP LPA-MILNOR-05 VENTURI	

BMP180016/2019416A Page (1 / 2)

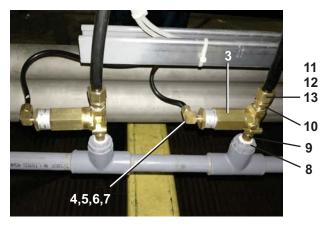
Peristaltic Chemical Inlets

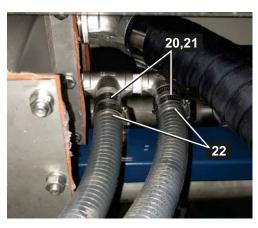
76028G3, 76039G3, 92048G4 Tunnels











BMP180016/2019416A Page (2 / 2)

Peristaltic Chemical Inlets

76028G3, 76039G3, 92048G4 Tunnels

Parts List

Used In	Item	Part Number	Description	Comments
			COMPONENTS	
all	1	06 70196	PERISTALTIC TUBE MNT	
all	2	02 03590C	CHEM INJ MANIFOLD 4-PORT MOLDED	
all	3	96TBC2AA01	1/4" N/C 1WAY AIR-OP VALVE POLYPRO (NO COIL)	
all	4	60E004TE	1/4"OD X.170"ID NYL(BLK)TUBING	
all	5	53A059A	NUT 1/4"BR.HOLYOKE AND #61A-4	
all	6	53A500	SLEEVE DELRIN 1/4"OD#60PT-4	
all	7	53A501	TUBE INSERT .163"OD #63PT-4-40	
all	8	5KB0K0EP82	BUSHING 1/2"SOKX1/4FPT CPVCS80	
all	9	5N0ECLSBE2	NPT NIP 1/4XCLS TBE BRASS 125#	
all	10	53ACM0KEB	ASSY MALECON.5TX.25MP BRASS 68	
all	11	53A3000KB	SLEEVE 1/2"OD TUBE #60AP-8	
all	12	53A4000KB	TUBE INSERT 1/2"OD #60AE-8	
all	13	53A10SSKB	.5T COMPNUT 11/16-20 AND#61A-8	
all	14	60E005F	TUBING NYL.BLK.1/2"ODX.375ID	
all	15	53AEM9KKBC	MAL90ELSW1/2"TXM PARK#A8MES8MG	
all	16	5SB1A0KP4O	NPTHEXBUSH 1X1/2 PVC SK40	
all	17	51PB0GNA	3/8" PVDF THRD PLUG	
all	18	20C005EA	LOCTITE TREAD SEALANT #1537780	
all	19	51ET1AE02	HOSEADAPT PVC 1"X1" INSERT 90 DEG	
all	20	60E010B	TUBING,POLYWIRECLR 1"IDX1.375"	
all	21	27A090S	HOSECLAMP 13/16-1.5"SS#64016B	
all	22	5N0P02GS41	NPT NIP 3/4X2.375TOE 304SS SK4	
all	23	27A0626NUT	CLAMP NUT 3/8-16 W/SPRING	
all	24	15K096	HEXCAPSCR 3/8-16UNC2X1SS18-8	
all	25	15U260	LOCKWASHER MEDIUM 3/8 SS18-8	
all	26	15U245A	FLTWASH 25/64IDX1.25ODX3/32 S/	
all	27	15K145D	HXCAPSCR 1/2-13UNC2AX3/4 SS18-	
all	28	15U310S	FLATWASH-SS .53 X 1.37 .187T	
all	29	15U310	LOKWASHER REGULAR 1/2 SS18-8	

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Used In	Item	Item Part Number	Description	Comments
			ASSEMBLIES	
			COMPONENTS	
all	1	30F580	8041 BLIND UNIT MAG SENSOR	
all	2	30F580A	8025 LOWFLOW WALL-MNT TRANSMIT	
all	3	30F568	MAGMETER FITTING 316SS 1.5" S.S.TEE	



BMP180014/2018224A Page (1 / 2)

Optional De-Linting Tank





Optional De-Linting Tank

Parts List

sed In	Item	Part Number	Description	Comments
			ASSEMBLIES	
	Α	G62 03900V	SURGE TANK 250GAL WDGEWRE INST	BASE TANK
		G02 03900V	COMPONENTS	DAGE TAIN
all	1	27E935B96S	PUMP VORTEX 2"X1.5" W/ 5" IMPELLER 5HP/7/8 SPACER	
all	2	96D087FBA		
			1.5"BALVAL+ACT BRS N/C BONOMI (SPRING RET)	
all	3	96D021	1/4" BALVLV BRZ-BONOMI #172N-1/4" W /T-HANDLES	
all	4	30F580	8041 BLIND UNIT MAG SENSOR SHORT FINGER	
all	5	30F580A	8025 LOWFLOW WALL-MNT TRANSMIT	

3

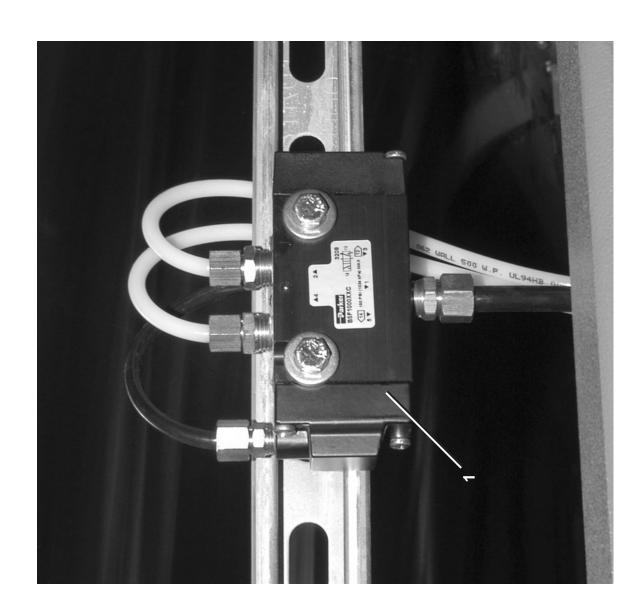
Pneumatics

3.5

Litho in U.S.A.



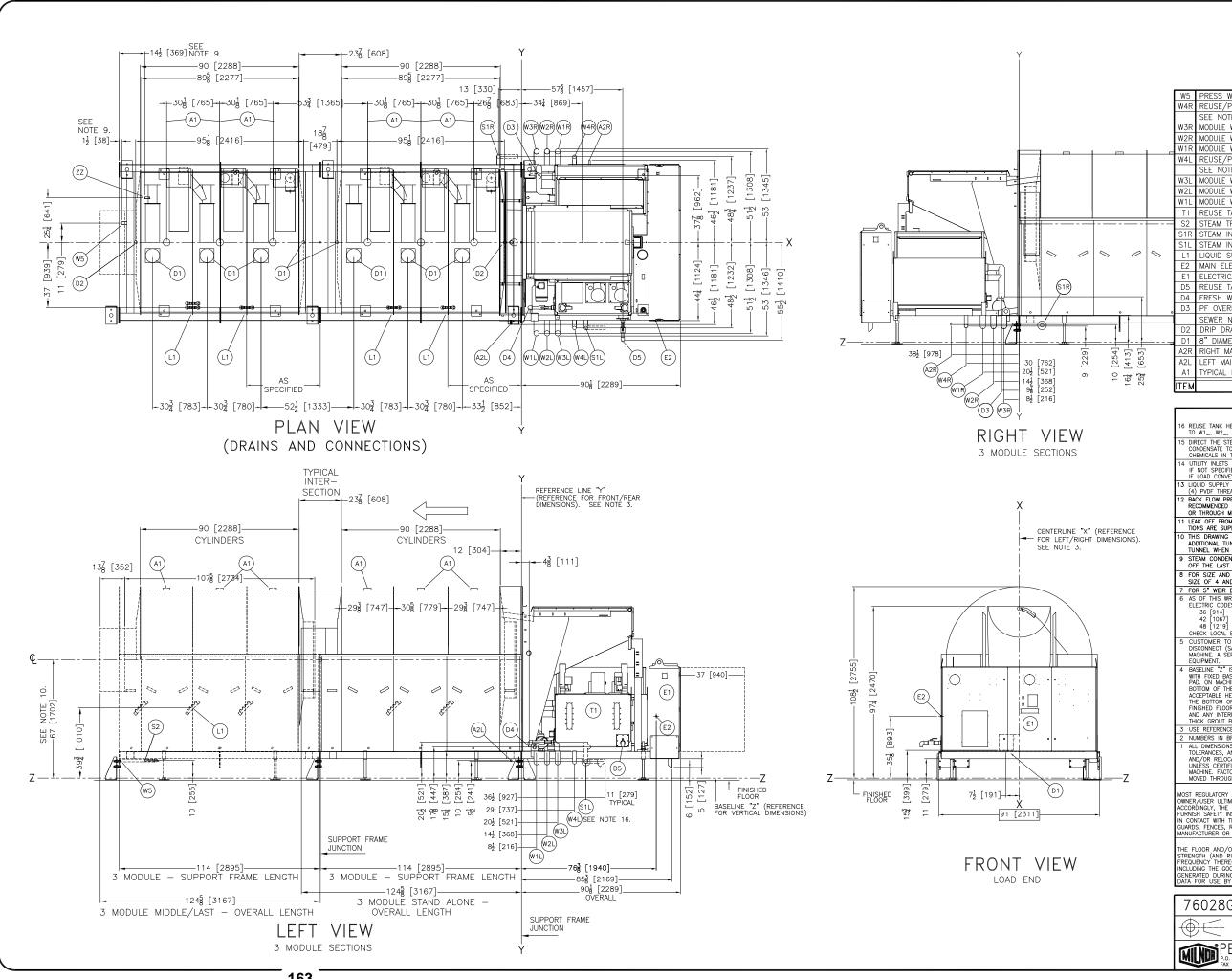
Pellerin Milnor Corporation P. O. Box 400, Kenner, LA 70063-0400



5 Port, 4 Way, 2 Position, Spring Return Valve

	_		
Parts List—Pneumatic Shuttle Valve assembly first, then find the needed components. The item letters (A, B, Ceferred to in the "Used In" column to identify which components belong to an etc.) assigned to components relate the parts list to the illustration.	Comments		
	Description	COMPONENTS	SHUTLVLV 1/4" 4WAY MECHSPRING
	Part Number		96N0011H
	ltem		-
	ul besU		<u>a</u>

Dimensional Drawings



PRESS WATER TO PULSE FLOW TANK 1-1/2" NPT REUSE/PULSEFLOW TANK HEADER, 2"NPT, UTILITIES RIGHT, MODULE WATER HEADER #3, 3"NPT, IF SPECIFIED, UTILITIES RIGHT MODULE WATER HEADER #2, 3"NPT, IF SPECIFIED, UTILITIES RIGHT MODULE WATER HEADER #1, 2" OR 3"NPT, UTILITIES RIGHT REUSE/PULSEFLOW TANK HEADER, 2"NPT, UTILITIES LEFT SEE NOTE 16. MODULE WATER HEADER #3, 3"NPT, IF SPECIFIED, UTILITIES LEFT MODULE WATER HEADER #2, 3"NPT, IF SPECIFIED, UTILITIES LEFT MODULE WATER HEADER #1, 2" OR 3"NPT, UTILITIES LEFT REUSE TANK STEAM TRAP, STEAM CONDENSATE OUTLET, 1/2" NPT STEAM INLET 2" NPT, UTILITIES RIGHT TEAM INLET 2" NPT, UTILITIES LEFT LIQUID SUPPLY INLETS, SEE NOTE 13. MAIN ELECTRICAL CONNECTION FLECTRICAL CONTROL BOX REUSE TANK MANUAL DRAIN (OPTIONAL), 2" HOSE SUPPLIED RESH WATER MANUAL DRAIN(STANDARD), 2" HOSE SUPPLIED PF OVERFLOW TO SEWER, 4" PVC OUTLET (5" HOSE TO SEWER NOT SUPPLIED.) DRIP DRAIN 1-3/4" ID TUBING SUPPLIED. SEE NOTE 11. B" DIAMETER DRAIN VALVE, ON SPECIFIED MODULES RIGHT MAIN AIR CONNECTION 1/2" NPT LEFT MAIN AIR CONNECTION 1/2" NPT YPICAL EXHAUST VENT 4[102] DIAMETER LEGEND

6 REUSE TANK HEADER INLET, W4_, IS NOT ALWAYS USED. IT MAY CONNECT DIRECTL TO W1_, W2_, OR W3_.

15 DIRECT THE STEAM CONDENSATE TO THE DRAIN TROUGH, DO NOT RETURN STEAM CONDENSATE TO THE BOILER BECAUSE OF POSSIBLE CONTAMINATION FROM CHEMICALS IN THE WASH WATER.

CONDENSARE OF THE BUILD BELADUS OF POSSIBLE CONTAMINATION FROM CHEMICALS IN THE WASH WATER.

14. UTILITY INLETS (WATER, STEAM, AIR) WILL ALWAYS BE OPPOSITE THE LOAD CONVEYOR. IF NOT SPECIFIED, THE INLETS WILL BE ON THE LEFT (WILL, W2L, W3L, W4L, AIL, SIL). IF LOAD CONVEYOR IS ON THE LEFT, USE RIGHT INLETS(WIR, W2R, W3R, W4R, AIR, SIR).

13. LIQUID SUPPLY INLETS, THE PVDF MANIFOLDS HAVE (4) 3/8" PORTS WITH (4) PVDF THREADED 3/8" PLUGS PER MANIFOLD, SHIPPED WITH THE MACHINE.

12. BACK FLOW PREVENTERS MUST BE INSTALLAED IF LOCAL PLUMBING CODES REQUIRE. RECOMMENDED MODELS ARE WATTS SERIES 009. THEY CAN BE PURCHASED LOCALLY OR THROUGH MILNOR. CONTACT MILNOR FACTORY.

OR THROUGH MILNOR. CONTACT MILNOR FACTORY.

I LEAK OFF FROM DRIP DRAINS MUST BE ROUTED TO DRAIN SUMP. THESE CONNECTIONS ARE SUPPLIED WITH TUBING, MAKING THIS A FLEXIBLE CONNECTION POINT.

10 THIS DRAWING SHOWS THE G.S TUNNEL AT 67"[1702] CENTERLINE. SEE ADDITIONAL TUNNEL DRAWINGS FOR THE INTERFACE DIMENSIONS OF THE TUNNEL WHEN USED WITH SPECIFIC EXTRACTING EQUIPMENT.

9 STEAM CONDENSATE OUTLET AND PRESS WATER TO REUSE TANK ARE MEASURED OFF THE LAST SUPPORT FRAME, REGARDLESS OF HOW LONG THE TUNNEL IS.

8 FOR SIZE AND LOCATION OF ADJUSTABLE FEET AND BOLT DOWN BRACKETS, SIZE OF 4 AND 5 MODULE SUPPORT FRAMES, SEE BDPF28G3FBDDE.

SIZE OF 4 AND 3 MODULE SUPPORT FRAMES, SEE BOPF28GS7BUDE.

7 FOR 5 "WEIR DRAIN OPTIONS AND DIMENSIONS, SEE BOPF28GS3PDDE.

6 AS OF THIS WRITING, THE MINIMUM CLEARANCE REQUIRED BY U.S. NATIONAL ELECTRIC CODES, FROM ELECTRIC BOX TO ANY OBJECT IS:
36 [914] IF OBJECT IS AN UNGROUNDED (INSULATED) WALL.
42 [1067] IF OBJECT IS ANY LIVE PART.
CHECK LOCAL ELECTRIC CODES FOR FURTHER RESTRICTIONS.

OUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT
DISCONNECT (SAFETY) SWITCHES WITH LAG TYPE FUSES FROM POWER SOURCE TO
MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO

COUPMENT.

BASELINE "2" IS THE REFERENCE FOR ALL VERTICAL DIMENSIONS. ON MACHINES WITH FIXED BASE PADS, BASELINE "2" CORRESPONDS TO THE BOTTOM OF THE BASE PAD. ON MACHINES WITH ADJUSTABLE FEET, BASELINE "2" CORRESPONDS TO THE BOTTOM OF THE FEET WHEN ADJUSTED SO THAT THE MACHINE IS AT ITS MINIMUM ACCEPTABLE HEIGHT. ON TRAVERSING SHUTTLES, BASELINE "2" CORRESPONDS TO THE BOTTOM OF THE BOTTOM FAIL. THE DISTANCE BETWEEN BASELINE "2" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "2" IS HORIZONTAL AND ANY INTERFACING MACHINES REQUIRENCE GROUT ARE SET ON A MINIMUM 1"[25] THICK GROUT BED. HICK GROUT BED.

THICK GROUT BED.

3 USE REFERENCE LINES "X", "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.

2 NUMBERS IN BRACKETS [] DENOTE DIMENSIONS IN MILLIMETERS.

1 ALL DIMENSIONS SHOWN ARE APPROXIMATE, SUBJECT TO NORMAL MANUFACTURING TOLERANCES, AND TO OCCASIONAL CHANGES WITHOUT NOTICE THROUGH REDESION AND/OR RELOCATION OF COMPONENTS, ETC. DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED, AND IN NO EVENT PRE-PIPE CLOSER THAN FIVE FEET FROM MACHINE. FACTORY MUST BE CONSULTED FOR DIMENSIONS IF MACHINE IS TO BE MOVED THROUGH NARROW OR LOW CORRIDORS OR OPENINGS.

MOST REGULATORY AUTHORITIES (INCLUDING OSHA IN THE USA) HOLD THE OWNER/USER ULTIMATELY RESPONSIBLE TO MAINTAIN A SAFE WORKING ENVIRONMENT. ACCORDINGLY, THE OWNER/USER MUST RECORDIZE ALL FORSECABLE SAFTY HAZARDS, FURNISH SAFTY INSTRUCTIONS AND GUIDANCE TO ALL PERSONNEL WHO MAY COME IN CONTACT WITH THE INSTALLATION, AND PROVIDE ALL NECESSARY ADDITIONAL SAFETY GUARDS, FENCES, RESTRAINTS, DEVICES, ETC., NOT FURNISHED BY THE EQUIPMENT MANUFACTURER OR VENDOR.

MANUFACTURER OR VENDOR.

ATTENTION

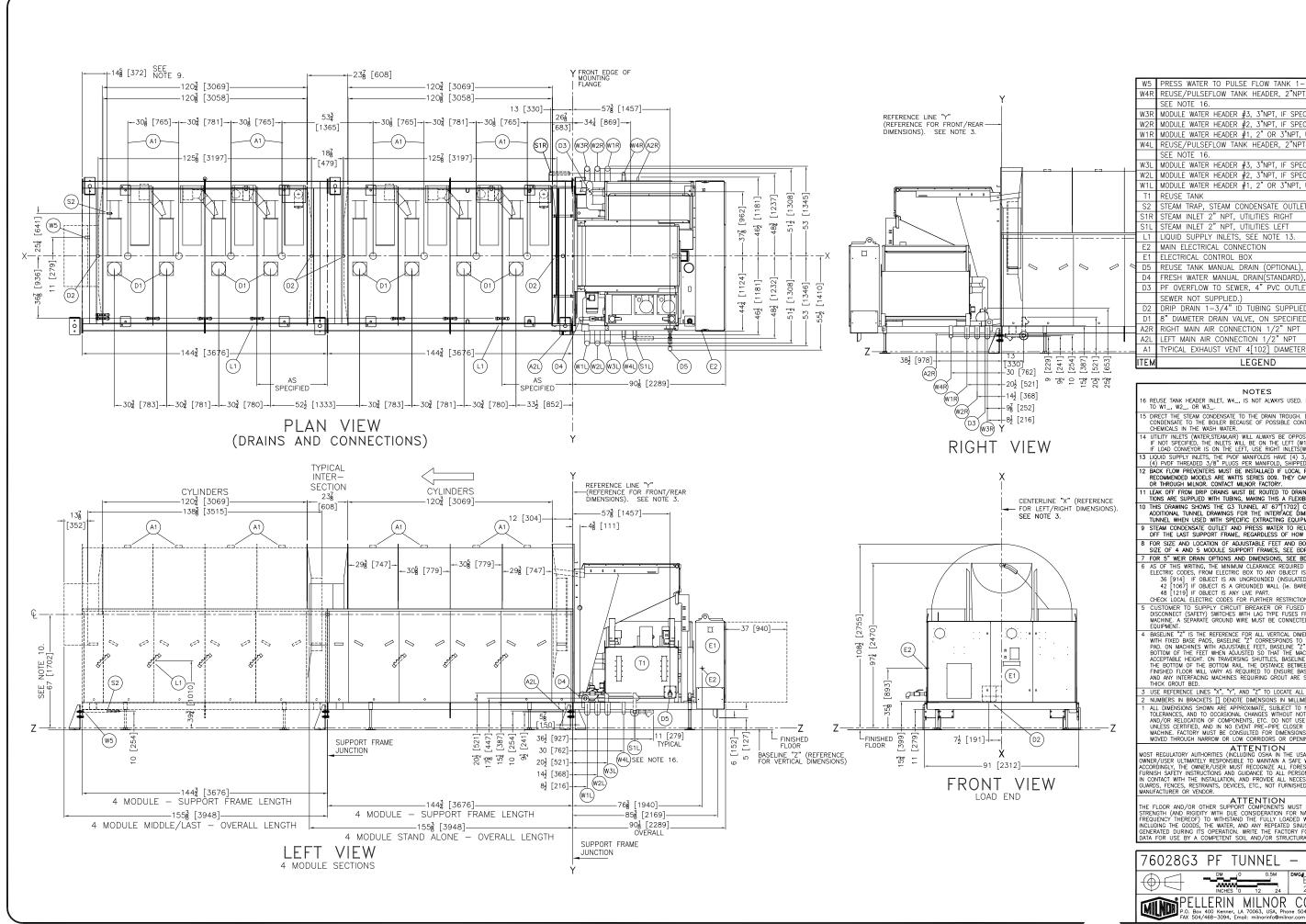
THE FLOOR AND/OR OTHER SUPPORT COMPONENTS MUST HAVE SUFFICIENT STRENGTH (AND RIGIDITY WITH DUE CONSIDERATION FOR NATURAL OR RESONANT FREQUENCY THEREOF) TO WITHSTAND THE FULLY LOADED WEIGHT OF THE MACHINE INCLUDING THE GOODS, THE WATER, AND ANY REPEATED SINUSIDAL (ROTATING) FORCES GENERATED DURING ITS OPERATION. WITH THE FACTORY FOR ADDITIONAL MACHINE DATA FOR USE BY A COMPETENT SOIL AND/OR STRUCTURAL ENGINEER.

76028G3 PF TUNNEL-3 MODULE



2024095D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591,
FAX 504/468-3094, Email: milnorinfo@milnor.com



W5 PRESS WATER TO PULSE FLOW TANK 1-1/2" NPT. W4R REUSE/PULSEFLOW TANK HEADER, 2"NPT, UTILITIES RIGHT, W3R MODULE WATER HEADER #3, 3"NPT, IF SPECIFIED, UTILITIES RIGHT W2R MODULE WATER HEADER #2, 3"NPT, IF SPECIFIED, UTILITIES RIGHT W1R MODULE WATER HEADER #1, 2" OR 3"NPT, UTILITIES RIGHT W4L REUSE/PULSEFLOW TANK HEADER, 2"NPT, UTILITIES LEFT, SEE NOTE 16. W3L MODULE WATER HEADER #3, 3"NPT, IF SPECIFIED, UTILITIES LEFT
W2L MODULE WATER HEADER #2, 3"NPT, IF SPECIFIED, UTILITIES LEFT
W1L MODULE WATER HEADER #1, 2" OR 3"NPT, UTILITIES LEFT T1 REUSE TANK S2 STEAM TRAP, STEAM CONDENSATE OUTLET, 1/2" NPT STEAM INLET 2" NPT, UTILITIES RIGHT STEAM INLET 2" NPT, UTILITIES LEFT _1 LIQUID SUPPLY INLETS, SEE NOTE 13 MAIN ELECTRICAL CONNECTION F1 FLECTRICAL CONTROL BOX D5 REUSE TANK MANUAL DRAIN (OPTIONAL), 2" HOSE SUPPLIED
D4 FRESH WATER MANUAL DRAIN(STANDARD), 2" HOSE SUPPLIED D3 PF OVERFLOW TO SEWER, 4" PVC OUTLET (5" HOSE TO SEWER NOT SUPPLIED.) DRIP DRAIN 1-3/4" ID TUBING SUPPLIED. SEE NOTE 11. " DIAMETER DRAIN VALVE, ON SPECIFIED MODULES RIGHT MAIN AIR CONNECTION 1/2" NPT A2L LEFT MAIN AIR CONNECTION 1/2" NPT

LEGEND

- 6 REUSE TANK HEADER INLET, W4_, IS NOT ALWAYS USED. IT MAY CONNECT DIRECTL TO W1_, W2_, OR W3_.
- TO W1_, W2_, OR W3_.

 TO W1_, W2_, OR W3_.

 TO THE STEAM CONDENSATE TO THE DRAIN TROUGH, DO NOT RETURN STEAM CONDENSATE TO THE BOILER BECAUSE OF POSSIBLE CONTAMINATION FROM CONDENSATE TO THE BOILER BECAUSE OF POSSIBLE CONTAMINATION FROM THE WASH MAISTER WATER, STEAM, AIR? WILL ALWAYS BE OPPOSITE THE LOAD CONVEYOR. IF NOT SPECIFIED, THE INLETS WILL BE ON THE LEFT (W1TLWZL, W3L, W4L, A1L, S1L). IF LOAD CONVEYOR IS ON THE LEFT, USE RICHT INLETS (W1T, WZR, W3E, W4F, A1L, S1L).

 TO LOUID SUPPLY INLETS, THE PUPP MANIFOLDS HAVE (4) 3/8" PORTS WITH (4) PVDF THREADED 3/8" PLUGS PER MANIFOLD, SHIPPED WITH THE MACHINE.

 TO ARCH THE WASHING WASHING WITH A WASHING COORS REQUIRE. RECOMMENDED MODELS ARE WATEN SERIES 009. THEY CAN BE PURCHASED LOCALLY OR THROUGH MILNOR. CONTACT MILNOR FACTORY.

- OR THROUGH MILNOR. CONTACT MILNOR FACTORY.

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- SIZE OF 4 AND 3 MODULE SUPPORT FRAMES, SEE BDPF28GSFBUDE.

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 36 [914] IF OBJECT IS AN UNGROUNDED (INSLUATED) WALL.

 42 [1067] IF OBJECT IS ANY LIVE PART.

 CHECK LOCAL ELECTRIC CODES FOR FURTHER RESTRICTIONS.
- CUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT DISCONNECT (SAFETY) SWITCHES WITH LAG TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO EQUIPMENT.
- MACHINE. A SEPARATE GROUND MINE WOULD CONTINUE TO CONTINUE.

 BASELINE "Z" IS THE REFERENCE FOR ALL VERTICAL DIMENSIONS, ON MACHINES WITH FIXED BASE PADS, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE BASE PAD, ON MACHINES WITH ADJUSTABLE FEET, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE FEET WHEN ADJUSTED SO THAT THE MACHINE IS AT ITS MINIMUM ACCEPTABLE HEIGHT. ON TRAVERSING SHUTTLES, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE BOTTOM TAIL. THE DISTANCE BETWEEN BASELINE "Z" SAND THE BOTTOM OF THE BOTTOM TO THE BOTTOM OF THE
- THICK GROUT BED.
- THICK GROUT BED.

 3 USE REFERENCE LINES "X", "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.

 2 NUMBERS IN BRACKETS [] DENOTE DIMENSIONS IN MILLIMETERS.

 1 ALL DIMENSIONS SHOWN ARE APPROXIMATE, SUBJECT TO NORMAL MANUFACTURING TOLERANCES, AND TO OCCASIONAL CHANGES WITHOUT NOTICE THROUGH REDESION AND/OR RELOCATION OF COMPONENTS, ETC. DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED, AND IN NO EVENT PRE-PIPE CLOSER THAN FIVE FEET FROM MACHINE, RACTORY MUST BE CONSULTED FOR DIMENSIONS IF MACHINE IS TO BE MOVED THROUGH NARROW OR LOW CORRIDORS OR OPENINGS.

MOST REGULATORY AUTHORITIES (INCLUDING SOR OPENINGS.)

MOST REGULATORY AUTHORITIES (INCLUDING OSHA IN THE USA) HOLD THE OWNER/USER ULTIMATELY RESPONSIBLE TO MAINTAIN A SAFE WORKING ENVIRONMENT. ACCORDINGLY, THE OWNER/USER MUST RECORDIZE ALL FORESECABLE SAFETY HAZARDS, FURNISH SAFETY INSTRUCTIONS AND GUIDANCE TO ALL PERSONNEL WHO MAY COME IN CONTACT WITH THE INSTALLATION, AND PROVIDE ALL NECESSARY ADDITIONAL SAFETY GUARDS, FENCES, RESTRANTS, DEVICES, ETC., NOT FURNISHED BY THE EQUIPMENT MANUFACTURER OR VENDOR.

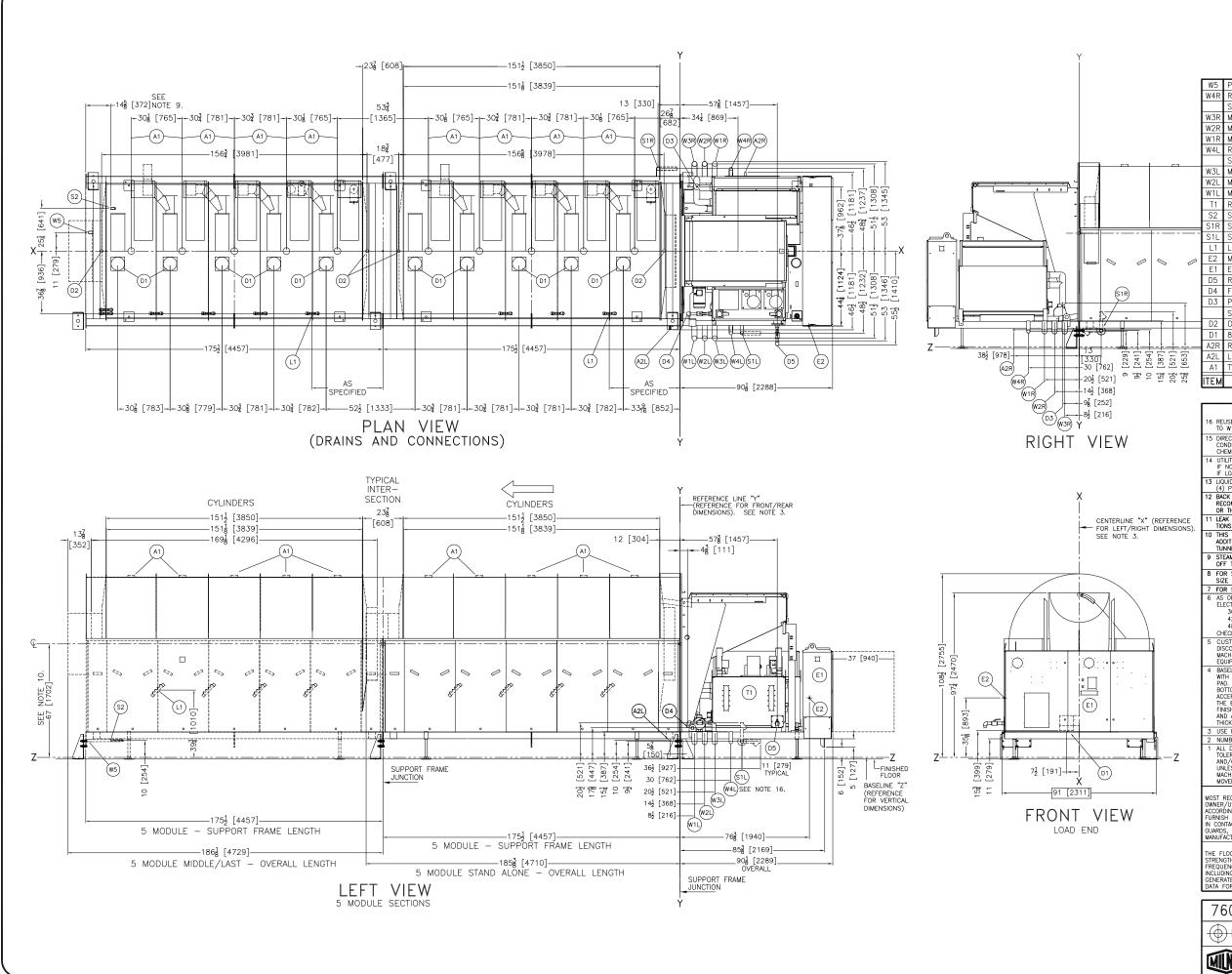
MANUFACTURER OR VENDOR.

ATTENTION
THE FLOOR AND/OR OTHER SUPPORT COMPONENTS MUST HAVE SUFFICIENT STRENGTH (AND RIGIDITY WITH DUE CONSIDERATION FOR NATURAL OR RESONANT FREQUENCY THEREOF) TO WITHSTAND THE FULLY LOADED WEIGHT OF THE MACHINE INCLUDING THE GOODS, THE WATER, AND ANY REPEATED SINUSIDIAL (ROTATING) FORCES GENERATED DURING ITS OPERATION. WRITE THE FACTORY FOR ADDITIONAL MACHINE DATA FOR USE BY A COMPETENT SOIL AND/OR STRUCTURAL ENGINEER.

76028G3 PF TUNNEL - 4 MODULE

^{wg}#BDPF28G3M4DDE 2024095D





W5 PRESS WATER TO PULSE FLOW TANK 1-1/2" NPT. W4R REUSE/PULSEFLOW TANK HEADER, 2"NPT, UTILITIES RIGHT, W3R MODULE WATER HEADER #3, 3"NPT, IF SPECIFIED, UTILITIES RIGH W2R MODULE WATER HEADER #2, 3"NPT, IF SPECIFIED, UTILITIES RIGHT W1R MODULE WATER HEADER #1, 2" OR 3"NPT, UTILITIES RIGHT W4L REUSE/PULSEFLOW TANK HEADER, 2"NPT, UTILITIES LEFT SEE NOTE 16. W3L MODULE WATER HEADER #3, 3"NPT, IF SPECIFIED, UTILITIES LEFT MODULE WATER HEADER #2, 3"NPT, IF SPECIFIED, UTILITIES LEFT MODULE WATER HEADER #1, 2" OR 3"NPT, UTILITIES LEFT REUSE TANK STEAM TRAP, STEAM CONDENSATE OUTLET, 1/2" NPT STEAM INLET 2" NPT, UTILITIES RIGHT TEAM INLET 2" NPT, UTILITIES LEFT _1 LIQUID SUPPLY INLETS, SEE NOTE 13 E2 MAIN ELECTRICAL CONNECTION F1 FLECTRICAL CONTROL BOX D5 REUSE TANK MANUAL DRAIN (OPTIONAL), 2" HOSE SUPPLIED D4 FRESH WATER MANUAL DRAIN(STANDARD), 2" HOSE SUPPLIED D3 PF OVERFLOW TO SEWER, 4" PVC OUTLET (5" HOSE TO SEWER NOT SUPPLIED. DRIP DRAIN 1-3/4" ID TUBING SUPPLIED, SEE NOTE 11. " DIAMETER DRAIN VALVE, ON SPECIFIED MODULES RIGHT MAIN AIR CONNECTION 1/2" NPT A2L LEFT MAIN AIR CONNECTION 1/2" NPT YPICAL EXHAUST VENT 4[102] DIAMETER

LEGEND

- 6 REUSE TANK HEADER INLET, W4_, IS NOT ALWAYS USED. IT MAY CONNECT DIRECTL TO W1_, W2_, OR W3_.
- 15 DIRECT THE STEAM CONDENSATE TO THE DRAIN TROUGH, DO NOT RETURN STEAM CONDENSATE TO THE BOILER BECAUSE OF POSSIBLE CONTAMINATION FROM CHEMICALS IN THE WASH WATER.
- CHEMICALS IN THE WASH WATER.

 14 UTILITY INLETS (WATER,STEAMAR) WILL ALWAYS BE OPPOSITE THE LOAD CONVEYOR.

 15 NOT SPECIFIED. THE INLETS WILL BE ON THE LEFT (WILWZLWSL,W4LA1L,S1L).

 16 LOAD CONVEYOR IS ON THE LEFT, USE RIGHT INLETS(WIT,WZR,W3R,W4R,A1R,S1R).

 17 LIQUID SUPPLY INLETS, THE PVDF MANIFOLDS HAVE (4) 3/8" PORTS AND COME WITH (4) PVDF THREADED 3/8" PLUGS PER MANIFOLD, SHIPPED WITH THE MACHINE.

 18 BACK FLOW PREVENTERS MUST BE INSTALLAED IF LOCAL PLUMBING CODES REQUIRE.

 19 RECOMMENDED MODELS ARE WAITS SERIES 009. THEY CAN BE PURCHASED LOCALLY OR THROUGH MILNOR. CONTACT MILNOR FACTORY.
- OR THROUGH MILNOR. CONTACT MILNOR FACTORY.

 11 LEAK OFF FROM DRIP DRAINS MUST BE ROUTED TO DRAIN SUMP. THESE CONNECTIONS ARE SUPPLIED WITH TUBING, MAKING THIS A FLEXIBLE CONNECTION POINT.

 10 THIS DRAWING SHOWS THE G.S TUNNEL AT 67"[1702] CENTRETLINE. SEE ADDITIONAL TUNNEL DRAWINGS FOR THE INTERFACE DIMENSIONS OF THE TUNNEL WHEN USED WITH SPECIFIC EXTRACTING EQUIPMENT.

 9 STEAM CONDENSATE OUTLET AND PESS WATER TO REUSE TANK ARE MEASURED OFF THE LAST SUPPORT FRAME, REGARDLESS OF HOW LONG THE TUNNEL IS.
- 8 FOR SIZE AND LOCATION OF ADJUSTABLE FEET AND BOLT DOWN BRACKETS, SIZE OF 4 AND 5 MODULE SUPPORT FRAMES, SEE BDPF28G3FBDDE.
- 57 FOR 5° WEIR DRAIN OPTIONS AND DIMENSIONS, SEE BDPF28G30PDDE.

 6 AS OF THIS WRITING, THE MINIMUM CLEARANCE REQUIRED BY U.S. NATIONAL ELECTRIC CODES, FROM ELECTRIC BOX TO ANY OBJECT IS.

 56 [914] IF OBJECT IS AN UNGROUNDED (INSULATED) WALL.

 42 [1067] IF OBJECT IS AN OFFICE OF A REPORT OF THE OFFICE OFTION OF THE OFFICE OF THE OFFICE OFTION OF THE OFFICE OFTION O

- CUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT DISCONNECT (SAFETY) SWITCHES WITH LAG TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO EQUIPMENT.
- BOUTMENT.

 BASELINE "2" IS THE REFERENCE FOR ALL VERTICAL DIMENSIONS. ON MACHINES WITH FIXED BASE PADS, BASELINE "2" CORRESPONDS TO THE BOTTOM OF THE FASE PAD ON MACHINES WITH ADJUSTABLE FEET, BASELINE "2" CORRESPONDS TO THE BOTTOM OF THE FEET WHEN ADJUSTED SO THAT THE MACHINE IS AT ITS MINIMUM ACCEPTABLE HEIGHT. ON TRAVERSING SHUTTLES, BASELINE "2" CORRESPONDS TO THE BOTTOM OF THE BOTTOM FAIL. THE DISTANCE BETWEEN BASELINE "2" AND THE RINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "2" IS HORIZONTAL AND ANY INTERFACING MACHINES REQUIRING GROUT ARE SET ON A MINIMUM 1"[25] THICK GROUT FEO
- THICK GROUT BED.

 3 USE REFERENCE LINES "X", "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.

 2 NUMBERS IN BRACKETS [] DENOTE DIMENSIONS IN MILLIMETERS.

 1 ALL DIMENSIONS SHOWN ARE APPROXIMATE, SUBJECT TO NORMAL MANUFACTURING TOLERANCES, AND TO OCCASIONAL CHANGES WITHOUT NOTICE THROUGH REDESION AND/OR RELOCATION OF COMPONENTS, ETC. DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED, AND IN NO EVENT PRE-PIPE CLOSER THAN FIVE FEET FROM MACHINE, FACTORY MUST BE CONSULTED FOR DIMENSIONS IF MACHINE IS TO BE MOVED THROUGH NARROW OR LOW CORRIDORS OR OPENINGS.

MOST RECULATORY AUTHORITIES (INCLUDING SOR OPENINGS.)

MOST RECULATORY AUTHORITIES (INCLUDING OSHA IN THE USA) HOLD THE OWNER/USER ULTIMATELY RESPONSIBLE TO MAINTAIN A SAFE WORKING ENVIRONMENT. ACCORDINGLY, THE OWNER/USER MUST RECOGNIZE ALL FORESECABLE SAFETY HAZARDS, FURNISH SAFETY INSTRUCTIONS AND GUIDANCE TO ALL PERSONNEL WHO MAY COME IN CONTACT WITH THE INSTALLATION, AND PROVIDE ALL NECESSARY ADDITIONAL SAFETY GUARDS, FRONES, RESTRAINTS, DEVICES, ETC., NOT FURNISHED BY THE EQUIPMENT MANUFACTURER OR VENDOR.

MANUFACTURER OR VENDOR.

ATTENTION

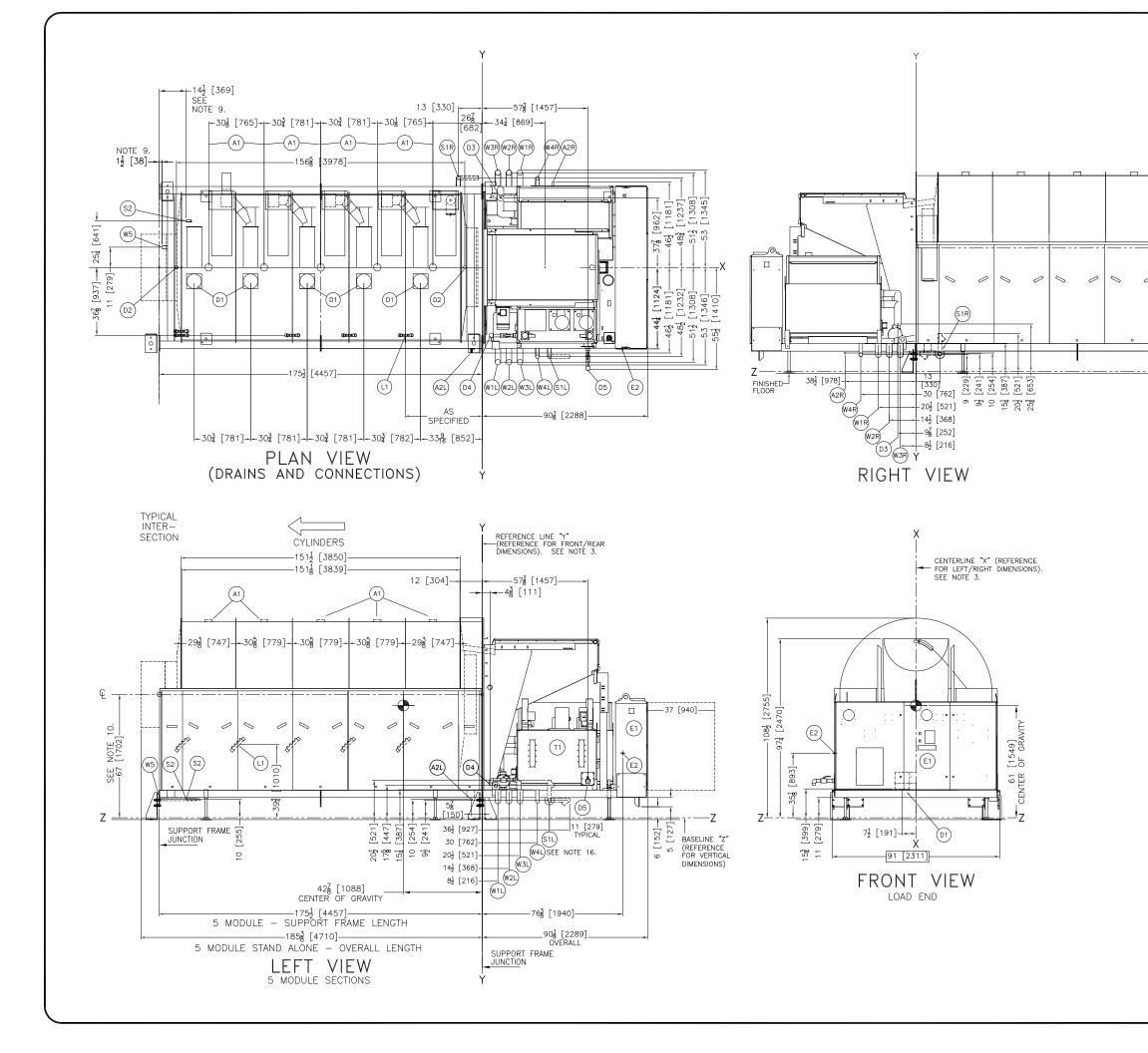
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76028G3 PF TUNNEL-5 MODULE BDPF28G3M5DDE



PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591,
FAX 504/468–3094, Email: milnorinfo@milnor.com

2024095D



W5	PRESS WATER TO PULSE FLOW TANK 1-1/2" NPT.
W4R	REUSE/PULSEFLOW TANK HEADER, 2"NPT, UTILITIES RIGHT,
	SEE NOTE 16.
W3R	MODULE WATER HEADER #3, 3"NPT, IF SPECIFIED, UTILITIES RIGHT
W2R	MODULE WATER HEADER #2, 3"NPT, IF SPECIFIED, UTILITIES RIGHT
W1R	MODULE WATER HEADER #1, 2" OR 3"NPT, UTILITIES RIGHT
W4L	REUSE/PULSEFLOW TANK HEADER, 2"NPT, UTILITIES LEFT,
	SEE NOTE 16.
	MODULE WATER HEADER #3, 3"NPT, IF SPECIFIED, UTILITIES LEFT
W2L	MODULE WATER HEADER #2, 3"NPT, IF SPECIFIED, UTILITIES LEFT
W1L	MODULE WATER HEADER #1, 2" OR 3"NPT, UTILITIES LEFT
T1	REUSE TANK
S2	STEAM TRAP, STEAM CONDENSATE OUTLET, 1/2" NPT
S1R	STEAM INLET 2" NPT, UTILITIES RIGHT
S1L	STEAM INLET 2" NPT, UTILITIES LEFT
L1	LIQUID SUPPLY INLETS, SEE NOTE 13.
	MAIN ELECTRICAL CONNECTION
	ELECTRICAL CONTROL BOX
D5	REUSE TANK MANUAL DRAIN (OPTIONAL), 2" HOSE SUPPLIED
D4	FRESH WATER MANUAL DRAIN(STANDARD), 2" HOSE SUPPLIED
D3	PF OVERFLOW TO SEWER, 4" PVC OUTLET (5" HOSE TO
	SEWER NOT SUPPLIED.)
D2	DRIP DRAIN $1-3/4$ " ID TUBING SUPPLIED. SEE NOTE 11.
D1	8" DIAMETER DRAIN VALVE, ON SPECIFIED MODULES
A2R	RIGHT MAIN AIR CONNECTION 1/2" NPT
A2L	LEFT MAIN AIR CONNECTION 1/2" NPT
A1	TYPICAL EXHAUST VENT 4[102] DIAMETER.
ITEM	LEGEND

NOTES

- 6 REUSE TANK HEADER INLET, W4_, IS NOT ALWAYS USED. IT MAY CONNECT DIRECTL
- TO W1_, W2_, OR W3_.

 15 DIRECT THE STEAM CONDENSATE TO THE DRAIN TROUGH, DO NOT RETURN STEAM CONDENSATE TO THE BOILER BECAUSE OF POSSIBLE CONTAMINATION FROM CHEMICALS IN THE WASH WATER.

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 15 NOT SPECIFIED, THE INLETS WILL BE ON THE LEFT (WILLWZLWSLW4L,AIL,SIL).

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 17 LIQUID SUPPLY INLETS, THE PVDF MANIFOLDS HAVE (4) 3/8" PORTS AND COME WITH

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MOVED INKUUGH NARROW OR LOW CORRIDORS OR OPENINGS.

ATTENTION

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MANUFACTURER OR VENDOR.

ATTENTION

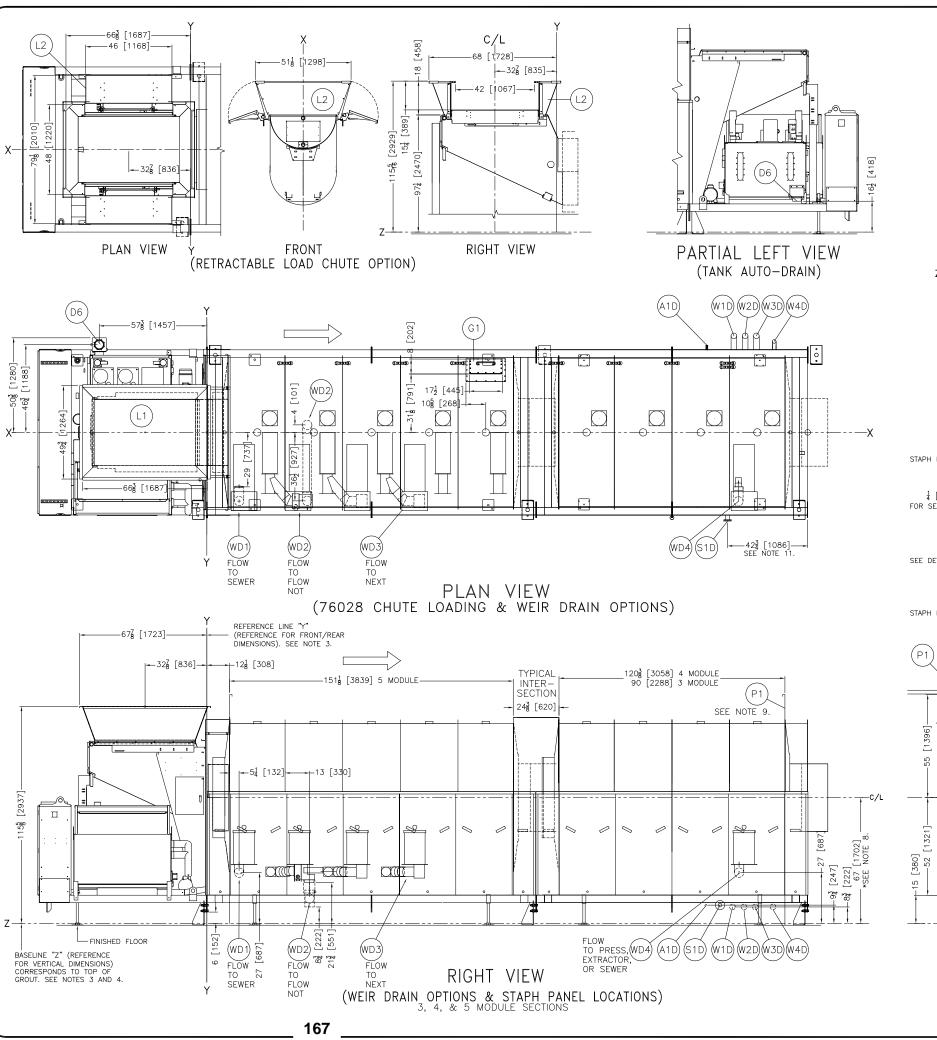
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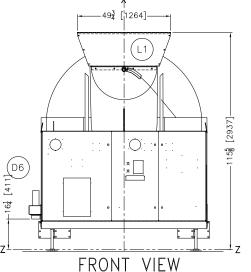
76028G3 PF 5 MODULE STANDALONE

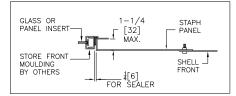


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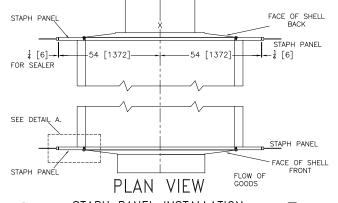
PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504 (473 C75)

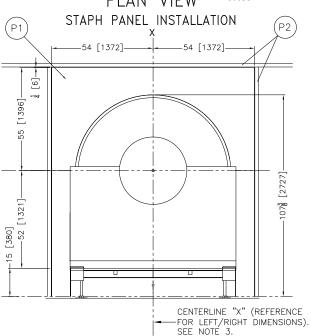






DETAIL A





REAR VIEW STAPH GUARD PANELS

JTILITIES DISCHARGE END, MODULE WATER HEADER #4 IF SPECIFIED) 2"NPT, SEE NOTE 11. TILITIES DISCHARGE END, MODULE WATER HEADER #3 IF SPECIFIED) 3"NPT, SEE NOTE 11 ITILITIES DISCHARGE END, MODULE WATER HEADER #2 IF SPECIFIED) 3"NPT, SEE NOTE 11. JTILITIES DISCHARGE END, MODULE WATER HEADER #1 JTILITIES DISCHARGE END, STEAM INLET RIGHT, 2" NPT BOLT FLANGED SEE NOTE 11 STORE FRONT MOLDINGS BY OTHERS OPTIONAL STAPH GUARD PANEL, SEE NOTE 9. PTIONAL RETRACTABLE LOAD CHUTE FOR SLING LOADING OPTIONAL LARGER LOAD CHUTE FOR SLING/BAG LOADING WITH FLAIRSIDES FROM CENTER OF MODULE. PTIONAL PF TANK REUSE AUTO-DRAIN, 4-1/2"OD 5" HOSE NOT SUPPLIED) WEIR FLOW TO PRESS OR EXTRACTOR, TYPICAL OF THE LAS TUNNEL MODULE, 3" TOE CONNECTION, FOR 3-1/2" HOSE SUPPLIED BY PMC. WEIR FLOW TO NEXT MODULE, SEE NOTE 10 WEIR 5" NPT FLOW TO FLOWNOT, 4" PVC SUPPLIED TO SEWER CAN BE MODIFIED AT INSTALLATION SEE NOTE 10 WEIR 5" NPT FLOW TO SEWER, SEE NOTE 10. JTILITIES DISCHARGE END, MAIN AIR CONNECTION, 1/2" NPT LEGEND

NOTES

- OPTIONAL DISCHARGE END UTILITIES ARE ON THE LAST MODULE. WATER AND AIR MUST BE ON THE LEFT. STEAM MUST BE ON THE RIGHT. DIMENSIONS ARE APPROXIMATE.
- MODULE. THESE MEASUREMENTS ARE GOOD FOR EITHER 3, 4 OR 5 MODULE UNITS
- STAPH GUARD PANELS MAY ONLY BE INSTALLAED ON ENTRY SHELLFRONT OR EXIT SHELLBACK. STAPH PANELS MAY NOT BE LOCATED IN THE MIDDLE OF THE TUNNEL. THE DIMENSIONS AND LOCATIONS SHOWN ARE SUBJECT TO NORMAL MANUFACTURING TOLERANCE AND MAY VARY BETWEEN MACHINES.
- THIS DRAWING SHOWS THE G3 TUNNEL AT 67"[1702] CENTERLINE. SEE ADDITIONAL TUNNEL DRAWINGS FOR THE INTERFACE DIMENSIONS OF THE TUNNEL WHEN USED WITH SPECIFIC EXTRACTING EQUIPMENT. THE TUNNEL MAY REQUIRE A VERTICAL ADJUSTMENT TO INTERFACE WITH ADJACENT MACHINES.
- FOR OVERALL DIMENSIONS AND STANDARD CONNECTIONS, SEE BDPF28G3M3DDE, BDPF28G3M4DDE, OR BDPF28G3M5DDE.

- BDPF28G3M4DDE, OR BDPF28G3M5DDE.

 6 AS OF THIS WRITING, THE MINIMUM CLEARANCE REQUIRED BY U.S. NATIONAL ELECTRIC CODES, FROM ELECTRIC BOX TO ANY OBJECT IS:

 36 [914] IF OBJECT IS AN UNGROUNDED (INSULATED) WALL.

 42 [1067] IF OBJECT IS AN UNGROUNDED WALL (ie. BARE CONCRETE, BRICK, ETC.)

 48 [1219] IF OBJECT IS ANY LIVE PART.

 CHECK LOCAL ELECTRIC CODES FOR FURTHER RESTRICTIONS.

 5 CUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT DISCONNECT (SAFETY) SWITCHES WITH LACT TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MINT HACT TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO EQUIPMENT.

 4 BASELINE "Z" IS THE REFERENCE FOR ALL VERTICAL DIMENSIONS. ON MACHINES WITH FIXED BASE PAOS, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE FEET WHEN ADJUSTABLE FEET, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE FEET WHEN ADJUSTED SO THAT THE MACHINE IS AT ITS MINIMUM ACCEPTABLE HEIGHT. ON TRAVERSING SHUTTLES, BASELINE "Z" CORRESPONDS TO THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" IS HORIZONTAL AND ANY INTERFACION MACHINES REQUIRING GROUT ARE SET ON A MINIMUM 1"[25] THICK GROUT BED. THICK GROUT BED.
- THICK GROUT BED.

 3 USE REFERENCE LINES "X", "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.

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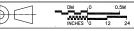
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MANUFACTURER OR VENDOR.

ATTENTION

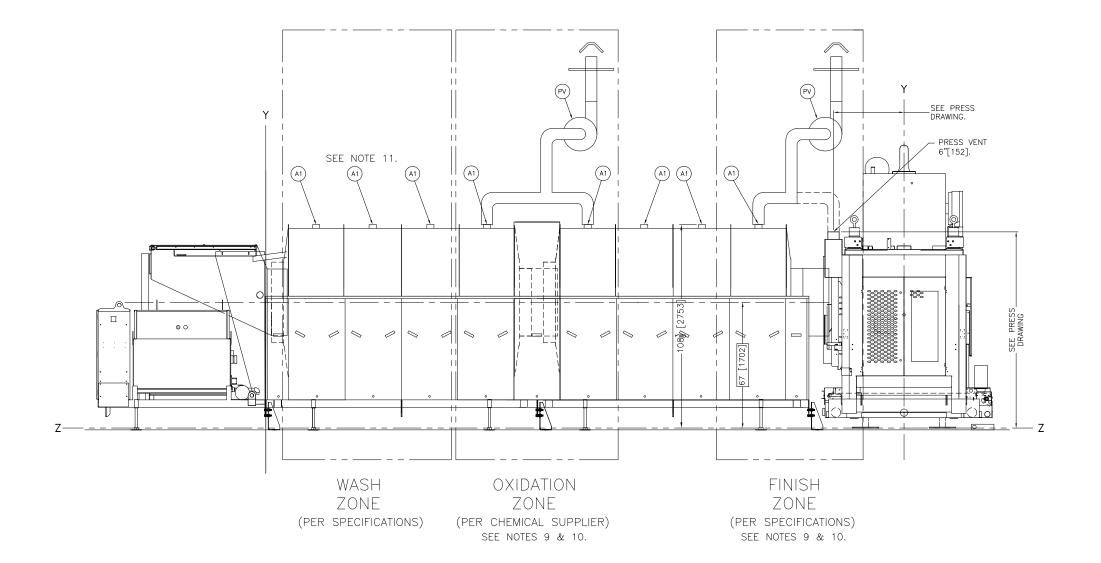
THE FLOOR AND/OR OTHER SUPPORT COMPONENTS MUST HAVE SUFFICIENT STRENGTH (AND RIGIDITY WITH DUE CONSIDERATION FOR NATURAL OR RESONANT FREQUENCY THEREOF) TO WITHSTAND THE FULLY LOADED WEIGHT OF THE MACHINE INCLUDING THE GOODS, THE WATER, AND ANY REPEATED SINUSOIDAL (ROTATING) FORCE GENERATED DURING ITS OPERATION. WHITE THE FACTORY FOR ADDITIONAL MACHINE DATA FOR USE BY A COMPETENT SOIL AND/OR STRUCTURAL ENGINEER.

76028G3 PF TUNNEL OPTIONS



BDPF28G30PDDF 2024095D





RECOMMENDED VENT SYSTEM FOR THE TUNNEL WASHER AND ADJACENT PRESS

PV POWERED VENTILATOR & PIPING BY OTHERS, SEE NOTE 10.

VENT, 4[102] DIAMETER. SEE NOTES 8, 9 & 10.

LEGEND

1 IT IS NOT RECOMMENDED TO CONNECT MODULE VENTS AHEAD OF THE OXIDATION ZONE TO THE POWER VENT SYSTEM. IF THIS IS NEEDED, ADD 200 TO 250 SCFM OF POWERED VENTLEAND PER ADDITIONAL MODULE VENTED.

OF POWERED VENTILATION PER ADDITIONAL MODULE VENTED.

1 HE BEST PRACTICE IS TO PROVIDE TWO SEPARATE, POWERED VENTILATION UNITS

THAT MEET THE FOLLOWING CONDITIONS:

A) THE TWO UNITS ARE ISOLATED FROM EACH OTHER TO AVOID HARMFUL CHEMICAL
REACTIONS.

B) VENTILATION FANS HAVE SUFFICIENT POWER TO DRAW VAPORS AWAY FROM THE
EQUIPMENT. MILNOR RECOMMENDS:

2001DATION ZONE: 600—750 SCFM

(300 TO 375 PER CONNECTION POINT, IF TWO MODULES)

ENIORI ZOME DRIES THE DRESS ENCLOSIBE: 600—750 SCFM

FINISH ZONE PLUS THE PRESS ENCLOSURE: 600-750 SCFM (200 TO 250 SCFM PER CONNECTION POINT, IF TWO MODULES) PLUS THE PRESS).

PRESS).
THE SCFM VALUES ARE BASED ON AMBIENT AIR TEMPERATURE OF 68'F(20'C) AND A MINIMAL RELATIVE HUMIDITY.

C) FAN MOTORS ARE EQUIPPED WITH AN ALARM (EXAMPLE: INDICATOR LIGHT) TO ALERT PERSONNEL IF A MOTOR FAILS.

D) FOR TUNNELS WITH LESS THAN SEVEN MODULES, CONSULT MILNOR FACTORY.

D) FOR TONNELS WITH LESS THAN SEVER MODULES, CONSOLI MINION FACTORT.

APORS GENERATED IN THE OXIDATION ZONE AND THE FINISH ZONE OF THE TUNNE
CAN MIX TOGETHER, PRODUCE NOXIOUS GASSES, AND CORRODE EQUIPMENT.

WITHOUT ADCOUNTE VENTILATION, THESE (ASSES, AND CORRODE EQUIPMENT,

WITHOUT ADCOUNTE THE DISCHARGE END OF THE TUNNEL DISCHARGE
RING OR CONCENTRATE IN THE DISCHARGE END OF THE TUNNEL AND ADJACENT
PRESS ENCLOSURE. THE SEVERITY VARIES WITH CHEMICAL COMPOSITION AND USAGE
BUT CORROSION CAN BE RAPID AND SEVERE.

8 ALL VENTS ARE CAPPED FOR SHIPMENT. UNCAP ALL VENTS AT INSTALLATION. 7 SEE INDIVIDUAL DIMENSIONAL DRAWINGS FOR ADDITIONAL DIMENSIONS FOR ALL MACHINES, INCLUDING HEIGHT. MATCH THIS DRAWING WITH THE INDIVIDUAL MACHINE DIMENSIONAL DRAWINGS USING REFERENCE LINE "Y" AND BASELINE "Z".

MACHINES, INCLODING HELDHI, MAICH INS DRAWING WITH THE INUVIOUAL MACHINE DIMENSIONAL DRAWINGS USING REFERENCE LINE "Y" AND BASELINE "Z".

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36 [914] IF OBJECT IS AN UNGROUNDED (INSULATED) WALL.

42 [1067] IF OBJECT IS AN UNGROUNDED WALL (ie. BARE CONCRETE, BRICK, ETC.)

48 [1219] IF OBJECT IS ANY LIVE PART.

CHECK LOCAL ELECTRIC CODES FOR FURTHER RESTRICTIONS.

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UNLESS CERTIFIED, AND IN NO EVENT PRE-PIPE CLOSER THAN FIVE FEET FROM
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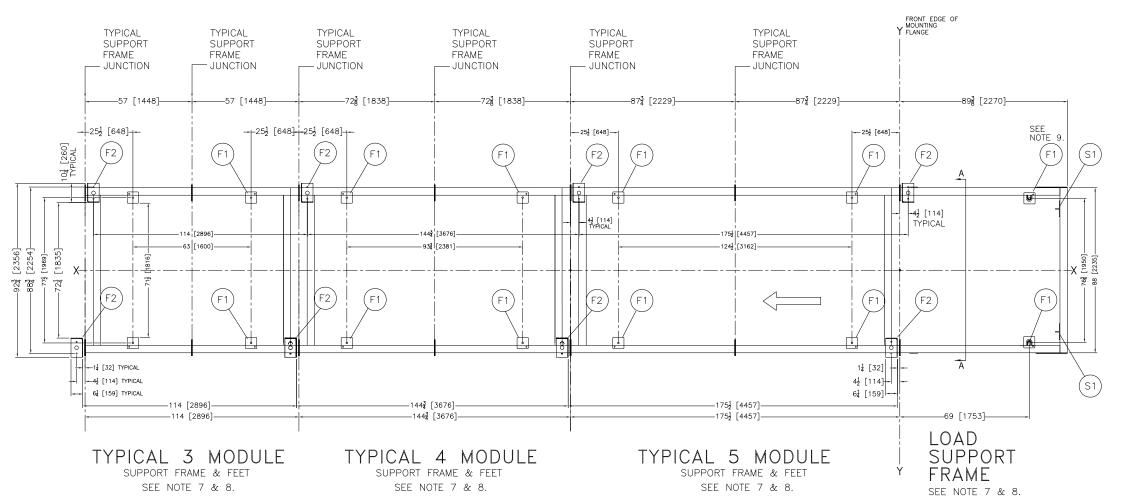
ATTENTION
THE FLOOR AND/OR OTHER SUPPORT COMPONENTS MUST HAVE SUFFICIENT STRENGTH (AND RIGIDITY WITH DUE CONSIDERATION FOR NATURAL OR RESONANT FREQUENCY THEREOF) TO WITHSTAND THE FULLY LOADED WEIGHT OF THE MACHINE INCLUDING THE GOODS, THE WATER, AND ANY REPEATED SINUSOIDAL (ROTATING) FORCE GENERATED DURING ITS OPERATION. WHITE THE FACTORY FOR ADDITIONAL MACHINE DATA FOR USE BY A COMPETENT SOIL AND/OR STRUCTURAL ENGINEER.

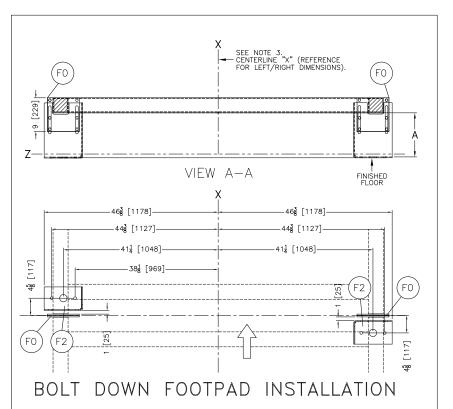
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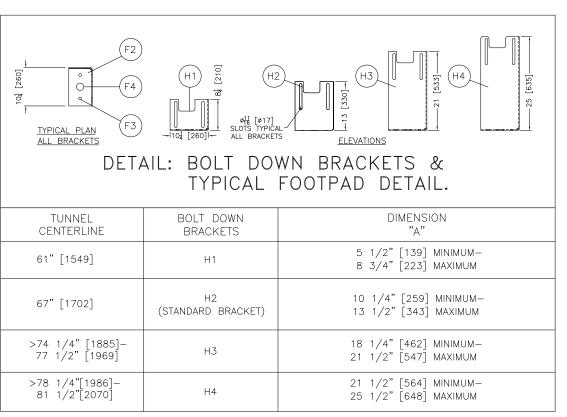


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P.O. BOX 400 Kenner, LA 70003, USA, Phone 504/467-9591,
FX 504/468-1940 5-004 P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467-9591 FAX 504/469-1849, Email: milnorinfo@milnor.com

169







LIFTING BRACKET MOUNTING PLATE, SEE BDPF28G3SBDDE.
25" TALLEST BOLT DOWN BRACKET, CONSULT FACTORY
21" TALL BOLT DOWN BRACKET, TYPICALLY FOR USE WITH
M9V4840
STANDARD BOLT DOWN BRACKET, TYPICALLY FOR USE WITH
MP2601, MP1550, MP1603, MP1604 & MP1656.
SHORTEST BOLT DOWN BRACKET, TYPICALLY FOR USE WITH
MP2501 AND M7V4232.
GROUT HOLES, 2" DIAMETER
ANCHOR BOLT HOLES, 3/4" DIAMETER
PLAN VIEW OF ALL BOLT DOWN FEET. SEE DETAIL &
NOTE 8.
ADJUSTABLE FLAT FEET 6"[152] SQUARE, MUST BE
SUPPORTED, ANCHORING NOT REQUIRED FOR G3 TUNNEL
TYPICAL SUPPORT FRAME JUNCTION
CONTROL BOX MOUNTED TO FRONT LOAD SUPPORT FRAME
LEGEND

NOTES

- THE RIGHT FRONT ADJUSTABLE FLAT FOOT, LOCATED UNDER THE PULSE FLOW TANK MAY REQUIRE THE TOP OF THE THREADED ROD CUT OFF AT INSTALLATION TO CLEATHE BOTTOM OF THE TANK.
- BOLT DOWN FEET ARE USED TO PREVENT THE TUNNEL FROM "WALKING" AND MUST BE INSTALLED IN ADDITION TO ADJUSTABLE FLAT FEET WHICH SUPPORT THE MACHIN A PARI OF BOLT DOWN FEET MUST BE INSTALLED ON THE END OF EACH SECTION, AND ONE PAIR OF BOLT DOWN FEET USED AT THE JUNCTION OF TWO SECTIONS, SEE PLAN VIEW.
- 7628 G3 TUNNELS CAN BE ORDERED IN VARIOUS COMBINATIONS OF 3, 4 & 5 MODULE SECTIONS; SEE BDPF28633CFCE. THIS DRAWING SHOWS 3, 4 & 5 MODULE SUPPORT FRAMES AND THE LOAD SUPPORT FRAME. CONSULT THE SPECIFICATIONS OF YOUR MACHINE BEFORE DETERMINING THE LOCATION OF ADJUSTABLE FEET AND BOLT DOWN BRACKETS
- BOLI DUWN BRAUKERS.

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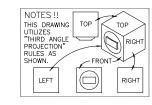
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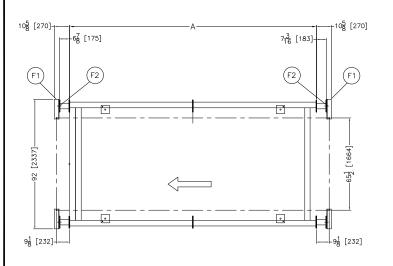
FOUNDATION 76028G3 PF TUNNELS



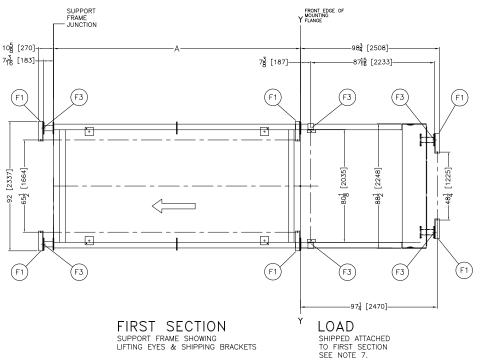
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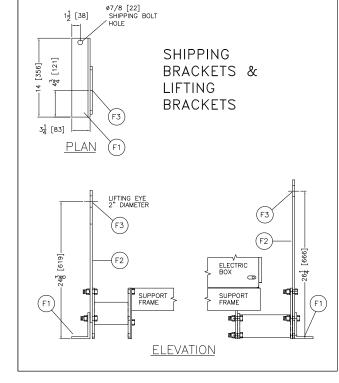
DIMENSIONS THAT VARY WITH NUMBER OF MODULES					
76028G3 PF TUNNELS	DIMENSION "A" INCHES mm				
3 MODULE	114 2896				
4 MODULE	144 3/4 3676				
5 MODULE	175 1/2 4457				



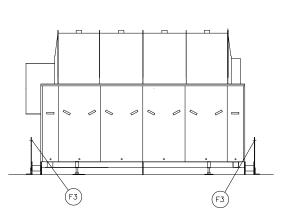


INDIVIDUAL TUNNEL SECTIONS SUPPORT FRAME SHOWING LIFTING EYES & SHIPPING BRACKETS

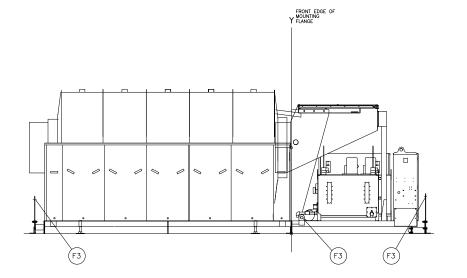




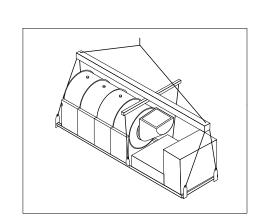
 $1\frac{1}{2}$ [38]



USE 4 POINT LIFTING FOR INDIVIDUAL SECTIONS



USE 6 POINT LIFTING FOR LOAD AND 1ST SECTION



LIFTING EYE, 2"[51] DIAMETER

IFTING BRACKET

SHIPPING BRACKET FOR EXPORT, 7/8"[22] DIAMETER BOLT

LEGEND

NOTES

THIS DRAWING SHOWS 3, 4 & 5 MODULE SUPPORT FRAMES , AND THE LOAD SUPPORT FRAME. G3 TUNNELS CAN BE ORDERED IN VARIOUS COMBINATIONS OF 3, 4 & 5 MODULE SECTIONS. CONSULT THE SPECIFICATIONS FOR YOUR MACHINE BEFORE LOCATING THE SHIPPING BRACKETS.

MID AND END TUNNEL SECTIONS ARE SEPARATED BEFORE SHIPMENT, FIRST SECTION ARE SHIPPED WITH THE LOAD SUPPORT FRAME, TANK, & CONTROL BOX ATTACHED.

| MID AND END 'INNEE'S SET WHEN ADJUSTED SO THAT THE MACHINE 'S AND AND AND THE FEET WHEN ADJUSTED SO THE BOTTOM OF THE BOTTOM

THICK GROUT BED.

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MANUFACTURER OR VENDOR.

ATTENTION

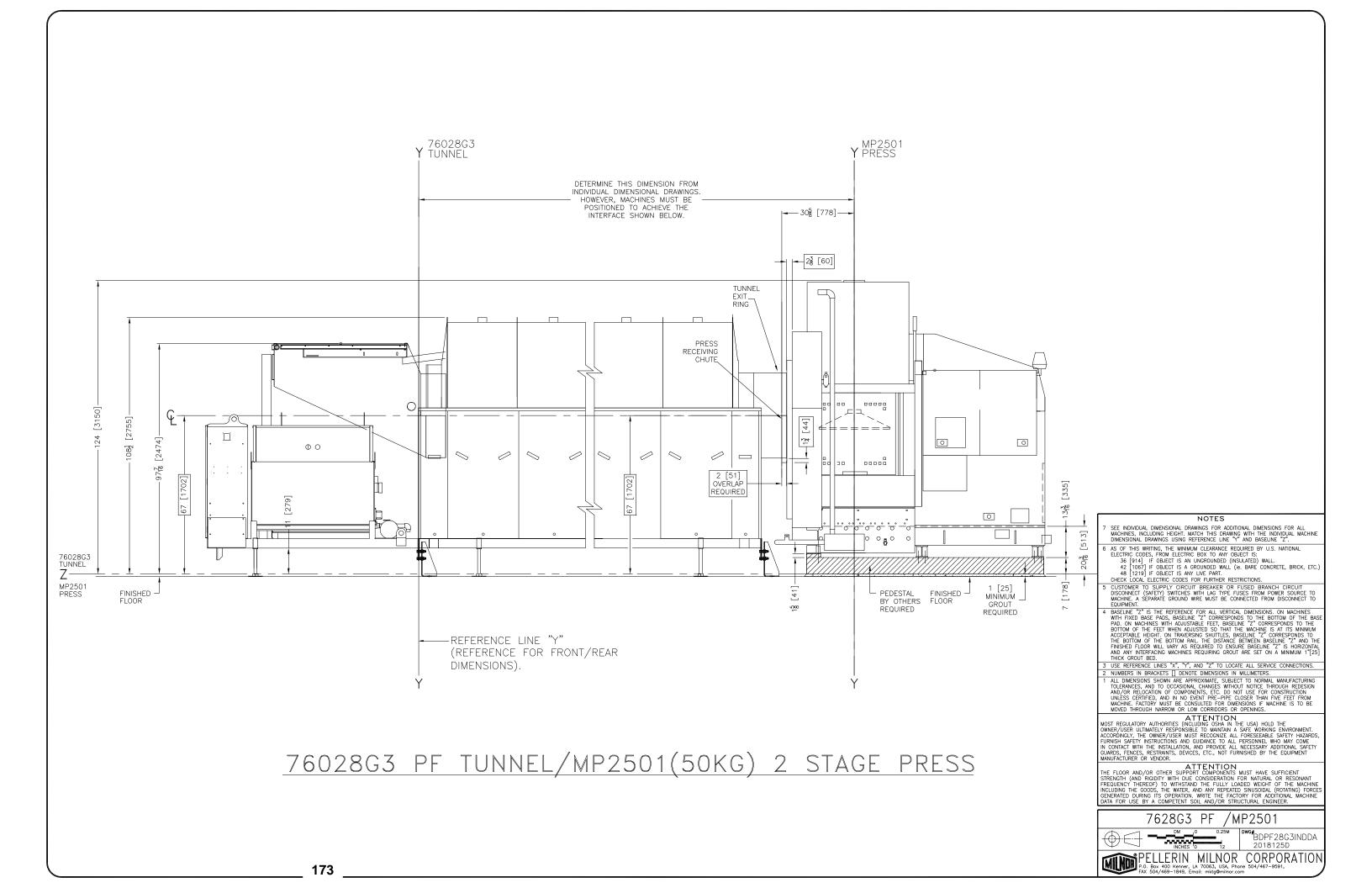
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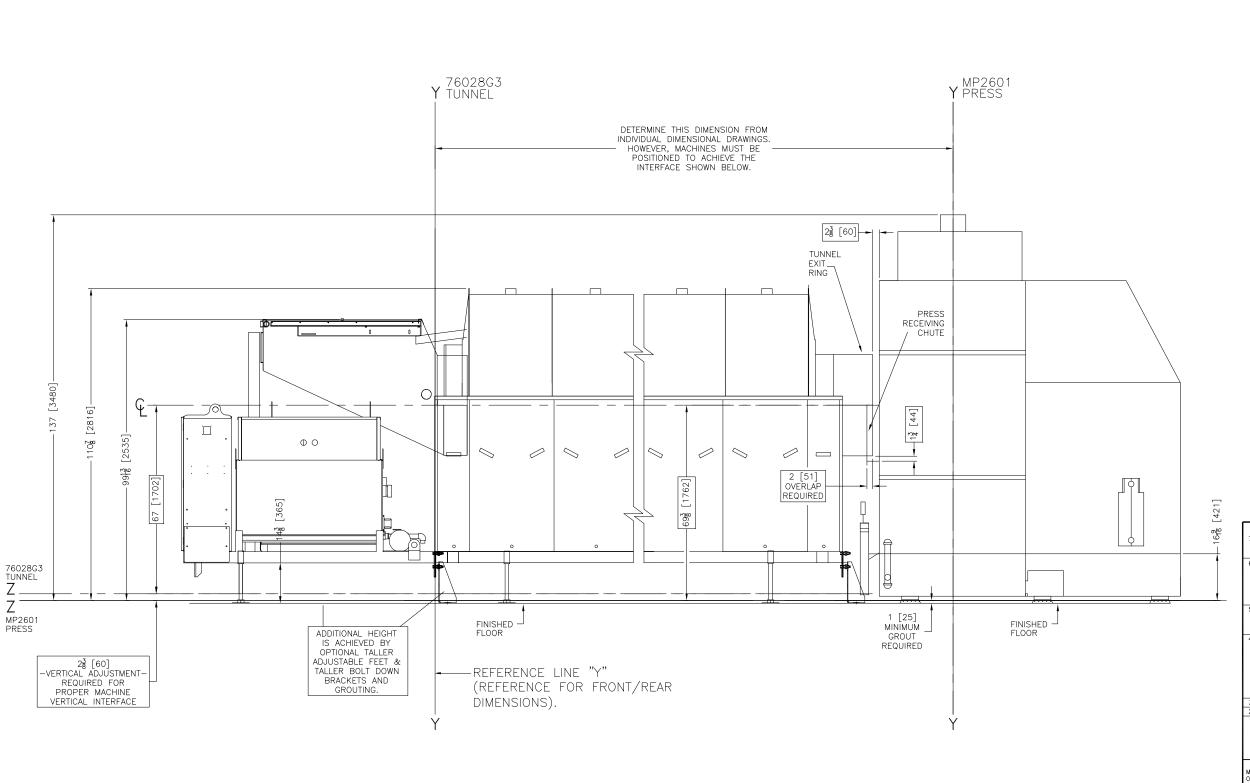
SHIPPING BRACKETS 28G3 PF



BDPF28G3SBDDF 2018125D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591,
FAX 504/469–1849, Email: milnorinfo@milnor.com





76028G3 PF TUNNEL/MP2601(60KG) 2 STAGE PRESS

NOTES

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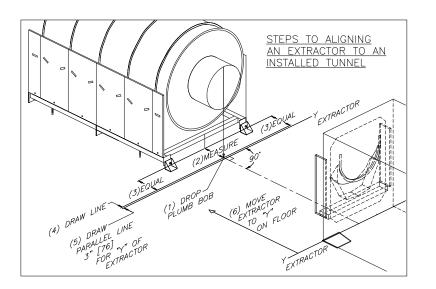
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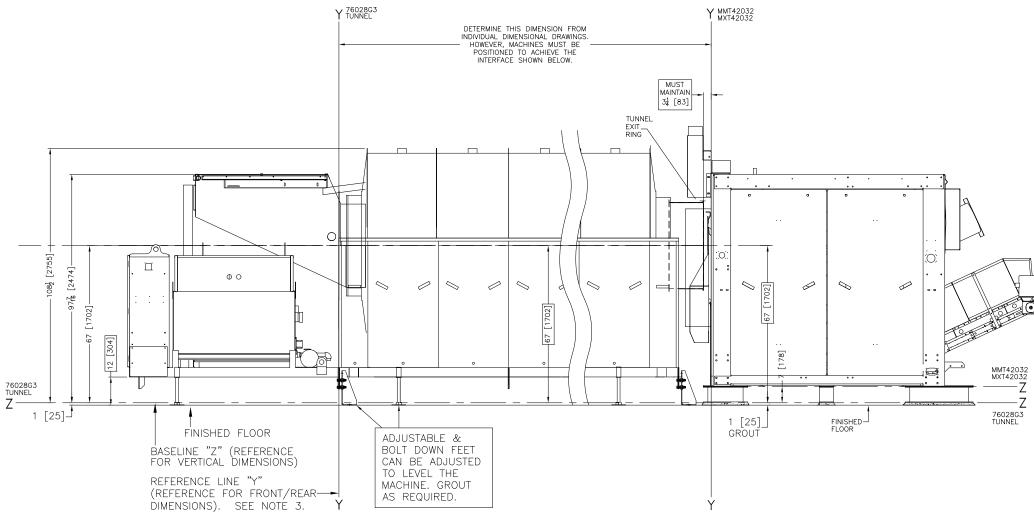
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0.5M BDPF28G3INDDF 2018125D 2018125D

P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591, FAX 504/469–1849, Email: milnorinfo@milnor.com





76028G3 PF TUNNEL/MMT, MXT42032

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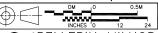
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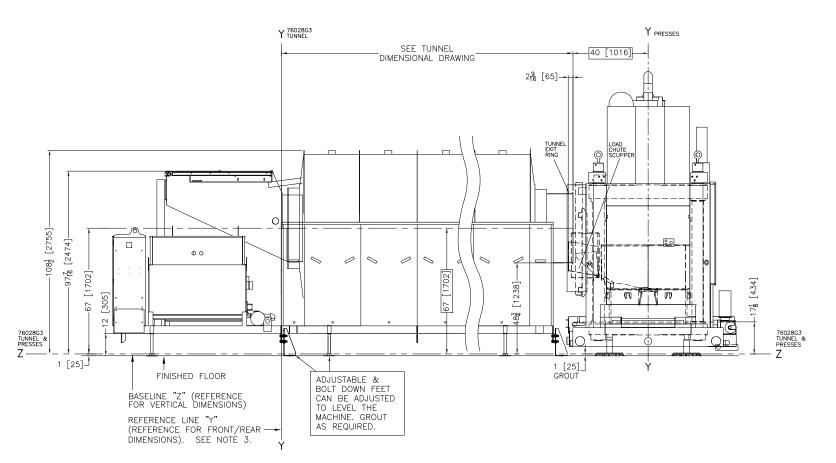
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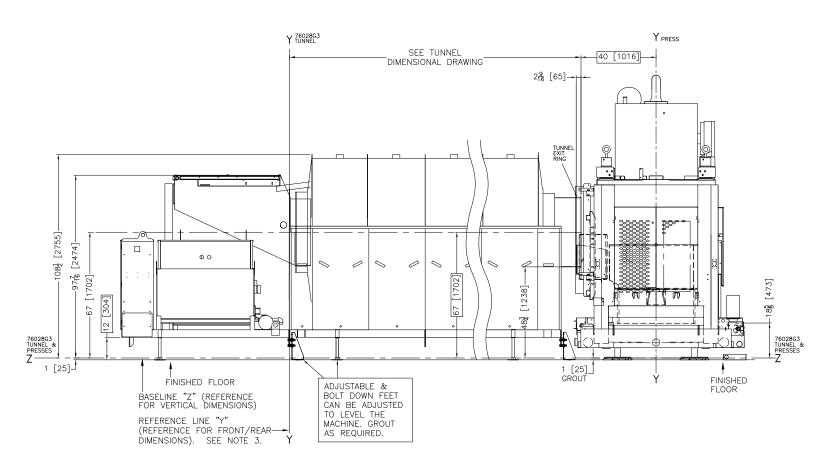
76028G3 PF/MMT,MXT42032



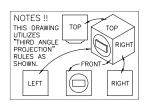
0.5M BDPF28G3INDDE 2018125D PELLERIN MILNOR CORPORATION
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76028G3 PF TUNNEL/MP1540 SINGLE STAGE PRESSES



76028G3 PF TUNNEL/MP1556, MP1640, MP1656 SINGLE STAGE PRESSES



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 AND ANY INTERFACING MACHINES REQUIRING GROUT ARE SET ON A MINIMUM 1"[25]
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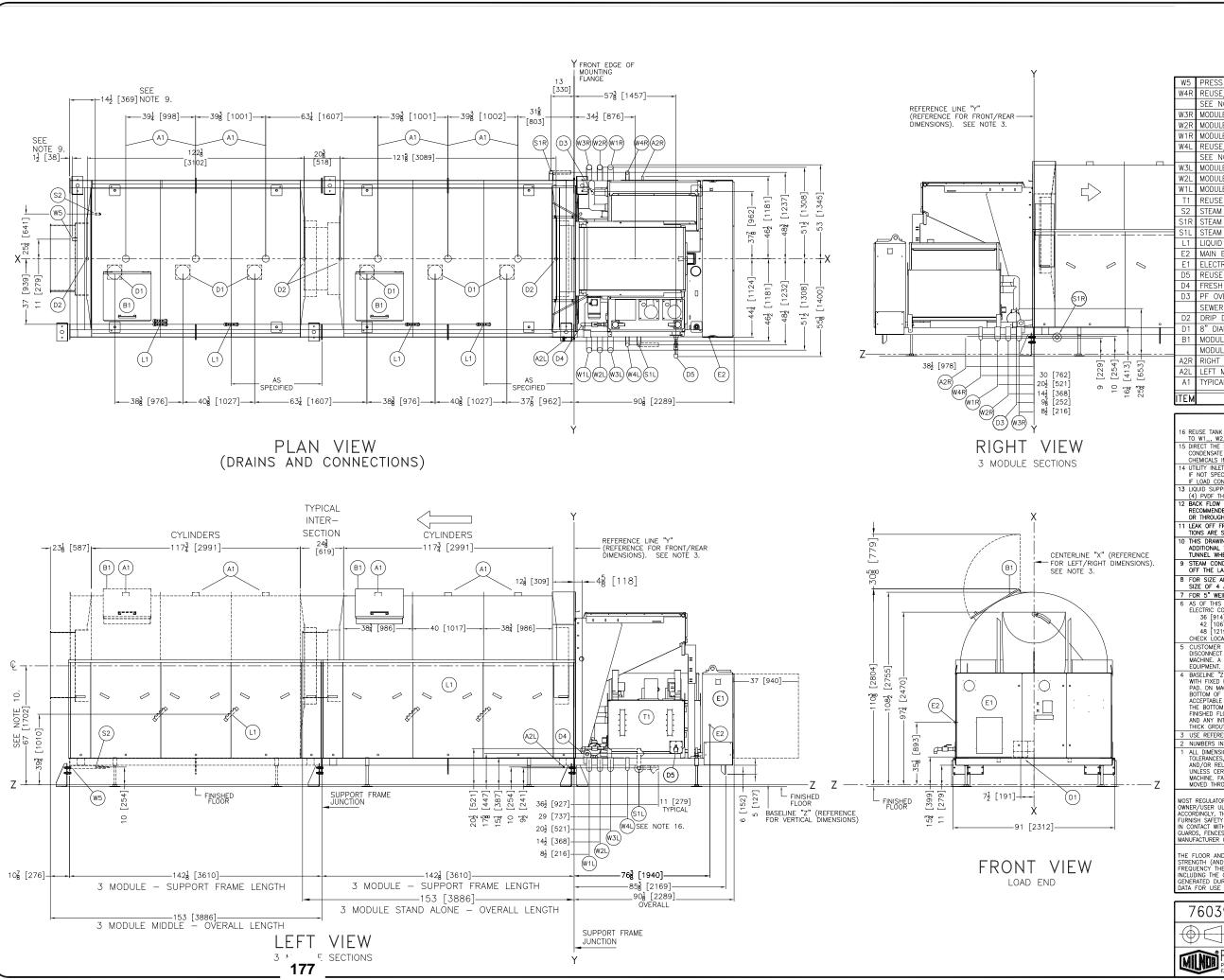
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MANUFACTURER OR VENDOR.

ATTENTION

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PRESS WATER TO PULSE FLOW TANK 1-1/2" NPT. REUSE/PULSEFLOW TANK HEADER, 2"NPT, UTILITIES RIGHT, MODULE WATER HEADER #3, 3"NPT, IF SPECIFIED, UTILITIES RIGH MODULE WATER HEADER #2, 3"NPT, IF SPECIFIED, UTILITIES RIGHT
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14 UTILITY INLETS (WATER-STEAM,AIR) WILL ALWAYS BE OPPOSITE THE LOAD CONVEYOR. IF NOT SPECIFIED, THE INLETS WILL BE ON THE LEFT (WILLWZL,W3L,W4L,A1L,STL), IF LOAD CONVEYOR IS ON THE LEFT, USE RIGHT INLETS(W1R,W2R,W3R,W4R,A1R,S1R).

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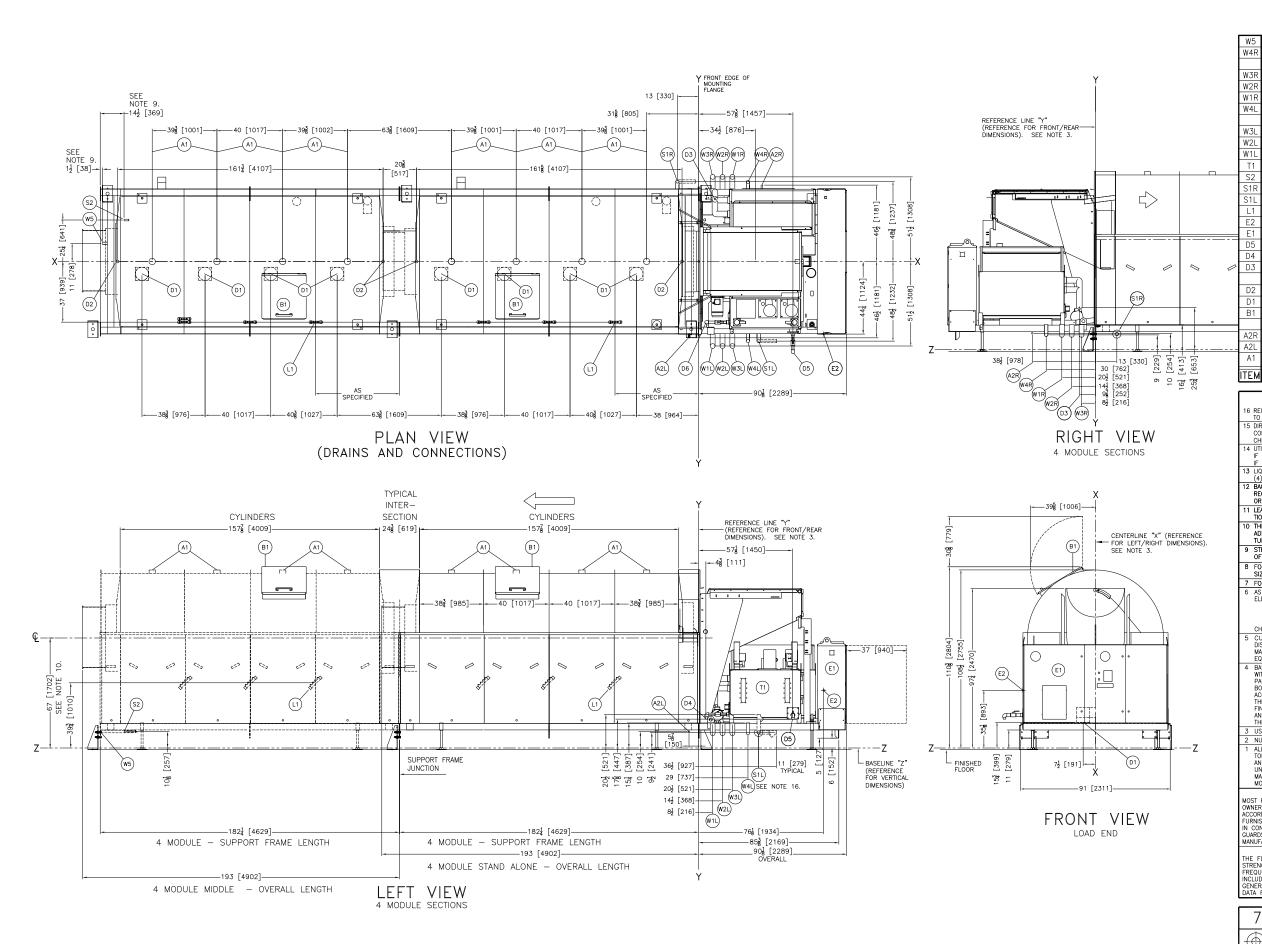
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76039G3 PF TUNNEL-3 MODULE



BDPF39G3M3DDF 2024095D

PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591,
FAX 504/488–3094, Email: milnorinflo@milnor.com



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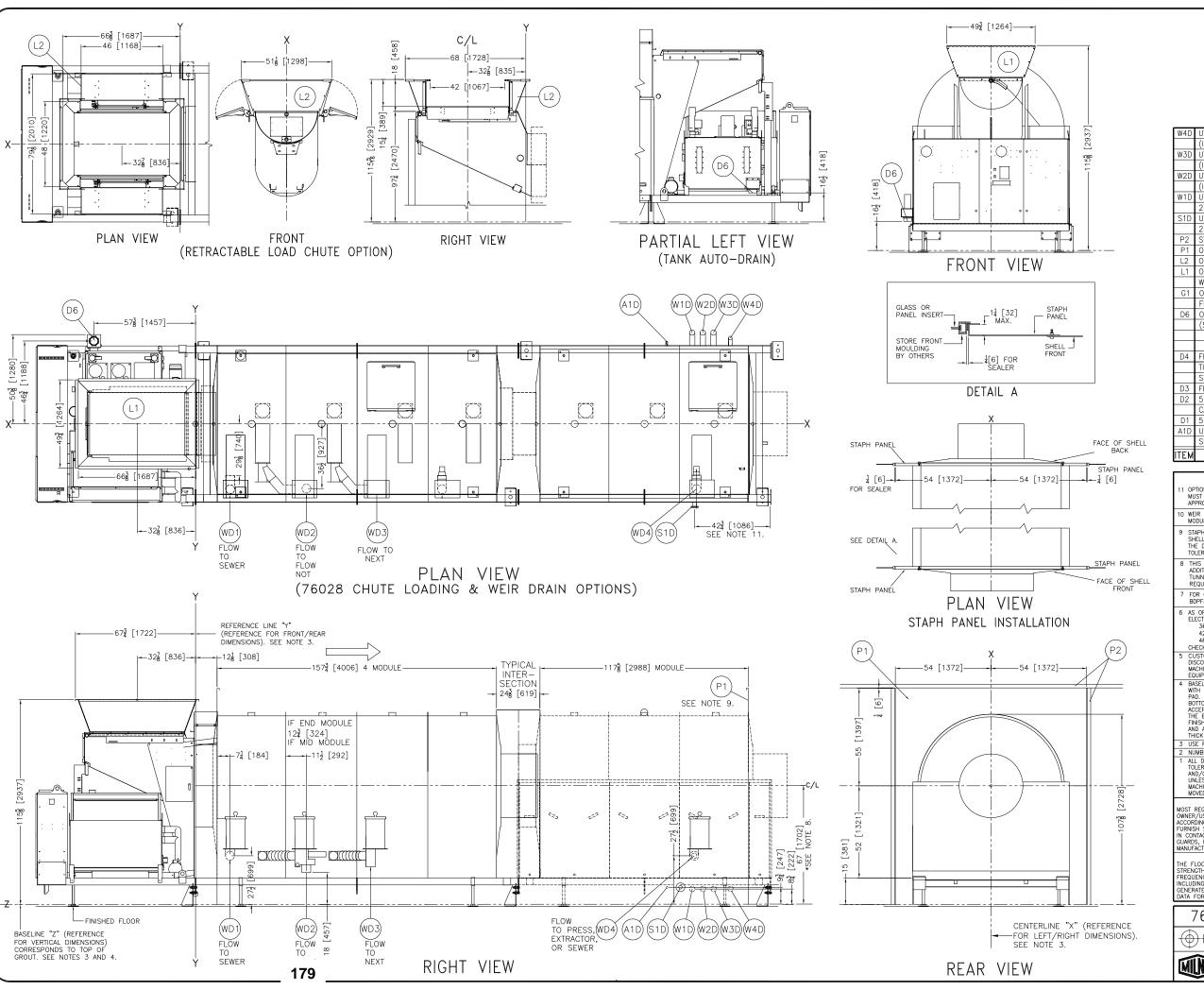
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76039G3 PF TUNNEL-4 MODULE



BDPF39G3M4DDE 2024095D

178



ITILITIES DISCHARGE END. MODULE WATER HEADER #4 F SPECIFIED) 2"NPT, SEE NOTE 11. ITILITIES DISCHARGE END, MODULE WATER HEADER IF SPECIFIED) 3"NPT, SEE NOTE 11. TILITIES DISCHARGE END, MODULE WATER HEADER #2 F SPECIFIED) 3"NPT, SEE NOTE 11. ITILITIES DISCHARGE END. MODULE WATER HEADER # OR 3"NPT, SEE NOTE 11. JTILITIES DISCHARGE END, STEAM INLET RIGHT TORE FRONT MOLDINGS BY OTHERS, SEE DETAIL PTIONAL STAPH GUARD PANEL SEE NOTE 9. PTIONAL RETRACTABLE LOAD CHUTE FOR SLING LOADING OPTIONAL LARGER LOAD CHUTE FOR SLING/BAG LOADING OPTIONAL VIEWPORT ON SPECIFIED MODULES, DIMENSIONED FROM CENTER OF MODULE OPTIONAL PF TANK REUSE AUTO-DRAIN, 4-1/2"OL 5" HOSE NOT SUPPLIED). LOW TO PRESS OR EXTRACTOR, TYPICAL OF THE LAST TUNNEL MODULE, 3" TOE CONNECTION, FOR 3-1/2" HOSE SUPPLIED BY PMC LOW TO NEXT MODULE, SEE NOTE 10 " NPT FLOW TO FLOWNOT, 4" PVC SUPPLIED TO SEWER, CAN BE MODIFIED AT INSTALLATION, SEE NOTE 10. NPT FLOW TO SEWER SEE NOTE 10 JTILITIES DISCHARGE END, MAIN AIR CONNECTION, 1/2" NPT

NOTES

LEGEND

- OPTIONAL DISCHARGE END UTILITIES ARE ON THE LAST MODULE. WATER AND AIR MUST BE ON THE LEFT. STEAM MUST BE ON THE RIGHT. DIMENSIONS ARE APPROXIMATE.
- MODULE. THESE MEASUREMENTS ARE GOOD FOR EITHER 3 OR 4 MODULE UNITS
- STAPH GUARD PANELS MAY ONLY BE INSTALLAED ON ENTRY SHELLFRONT OR EXIT SHELLBACK. STAPH PANELS MAY NOT BE LOCATED IN THE MIDDLE OF THE TUNNEL. THE DIMENSIONS AND LOCATIONS SHOWN ARE SUBJECT TO NORMAL MANUFACTURING TOLERANCE AND MAY VARY BETWEEN MACHINES.
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- FOR OVERALL DIMENSIONS AND STANDARD CONNECTIONS, SEE BDPF39G3M3CE, BDPF39G3M4CE.

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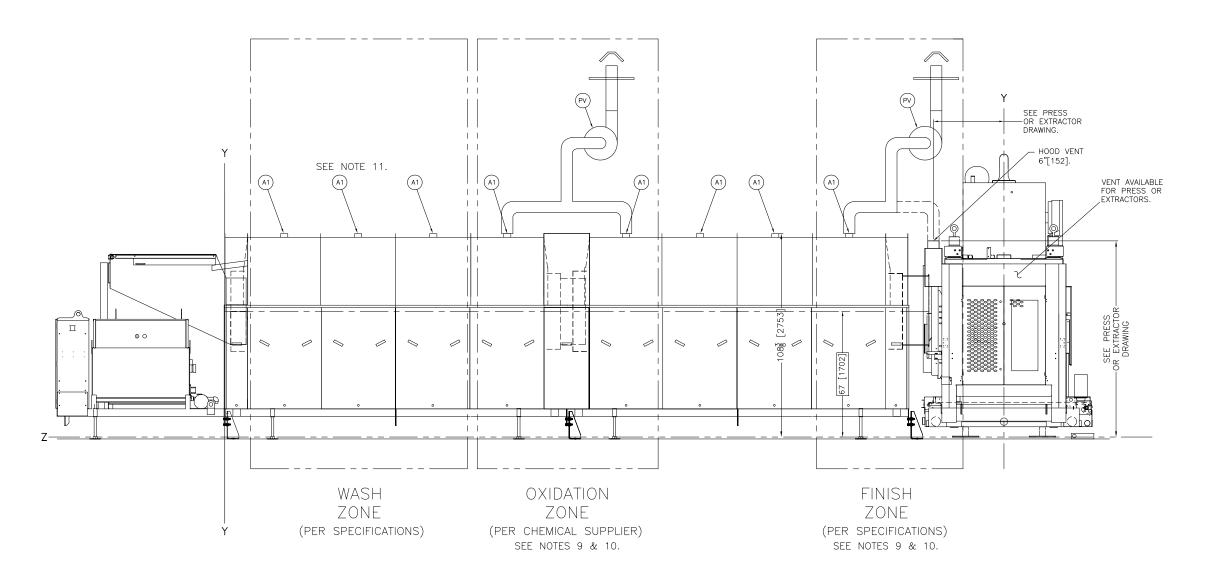
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76039 G3 PF TUNNEL OPTIONS



BDPF39G30PDDE 2024095D





RECOMMENDED VENT SYSTEM FOR THE TUNNEL WASHER AND ADJACENT PRESS OR EXTRACTOR

POWERED VENTILATOR & PIPING BY OTHERS, SEE NOTE 10. HOOD VENT, 6[152] DIAMETER, ON PRESS OR EXTRACTOR VENT, 4[102] DIAMETER. SEE NOTES 8, 9 & 10.

LEGEND

11 IT IS NOT RECOMMENDED TO CONNECT MODULE VENTS AHEAD OF THE OXIDATION ZONE TO THE POWER VENT SYSTEM. IF THIS IS NEEDED, ADD 200 TO 250 SCFM OF POWERD VENTLATION PER ADDITIONAL MODULE VENTED.

OF POWERED VENTILATION PER ADDITIONAL MODULE VENTED.

) THE BEST PRACTICE IS TO PROVIDE TWO SEPARATE, POWERED VENTILATION UNITS

THAT MEET THE FOLLOWING CONDITIONS:

A) THE TWO UNITS ARE ISOLATED FROM EACH OTHER TO AVOID HARMFUL CHEMICAL
REACTIONS.

B) VENTILATION FANS HAVE SUFFICIENT POWER TO DRAW VAPORS AWAY FROM THE
EQUIPMENT. MILNOR RECOMMENDS:

DINDATION ZONE: 600—750 SCFM

(300 TO 375 PER CONNECTION POINT, IF TWO MODULES)

ENINCIA ZONE DIES THE DBESS ENVILOSIBE. 600—750 SCFM

FINISH ZONE PLUS THE PRESS ENCLOSURE: 600-750 SCFM (200 TO 250 SCFM PER CONNECTION POINT, IF TWO MODULES) PLUS THE PRESS).

PRESS).

THE SCFM VALUES ARE BASED ON AMBIENT AIR TEMPERATURE OF 68°F(20°C) AND A MINIMAL RELATIVE HUMIDITY.

C) FAN MOTORS ARE EQUIPPED WITH AN ALARM (EXAMPLE: INDICATOR LIGHT) TO ALERT PERSONNEL IF A MOTOR FAILS.

D) FOR TUNNELS WITH LESS THAN SEVEN MODULES, CONSULT MILNOR FACTORY.

D) FOR TONNELS WITH LESS THAN SEVER MODULES, CONSULT MINDRY FACTORY.

APORS GENERATED IN THE OXIDATION ZONE AND THE FINISH ZONE OF THE TUNNE
CAN MIX TOGETHER, PRODUCE NOXIOUS GASSES, AND CORRODE EQUIPMENT.

WITHOUT ADCOUNTE VENTILATION, THESE VAPORS WILL EXIT THE TUNNEL DISCHARCE
RING OR CONCENTRATE IN THE DISCHARCE END OF THE TUNNEL AND ADJACENT
PRESS ENCLOSURE. THE SEVERITY VARIES WITH CHEMICAL COMPOSITION AND USAGE
BUT CORROSION CAN BE RAPID AND SEVERE.

8 ALL VENTS ARE CAPPED FOR SHIPMENT. UNCAP ALL VENTS AT INSTALLATION. 7 SEE INDIVIDUAL DIMENSIONAL DRAWINGS FOR ADDITIONAL DIMENSIONS FOR ALL MACHINES, INCLUDING HEIGHT. MATCH THIS DRAWING WITH THE INDIVIDUAL MACHINE DIMENSIONAL DRAWINGS USING REFERENCE LINE "Y" AND BASELINE "Z".

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MANUFACTURER OR VENDOR.

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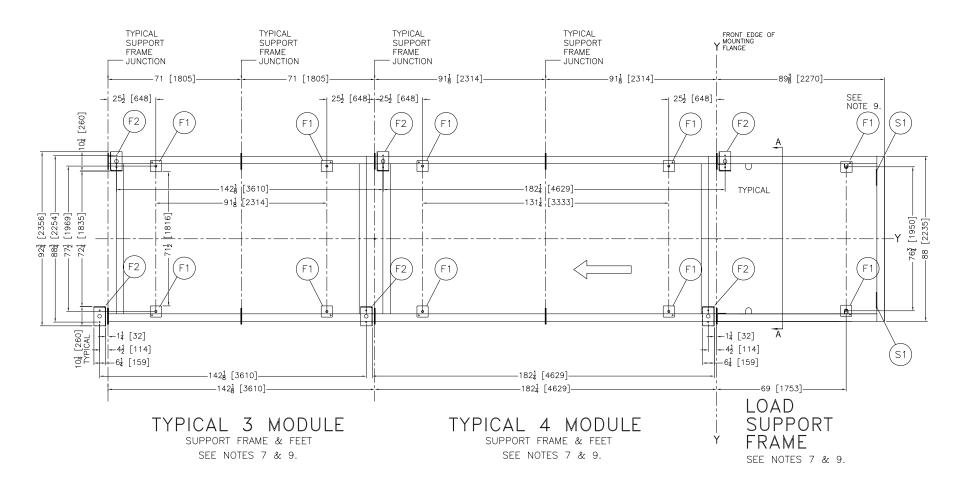


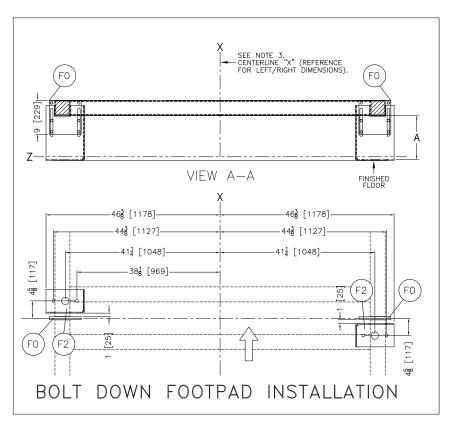


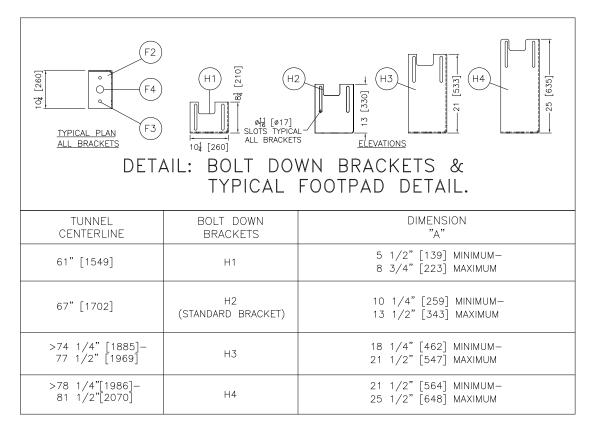
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PELLERIN MILNOR CORPORATION
P.O. BOX 400 Kenner, LA 70003, USA, Phone 504/467-9591,
FX 504/468-1940 5-1940

181







ITEM	LEGEND
E1	CONTROL BOX MOUNTED TO FRONT LOAD SUPPORT FRAME
F0	TYPICAL SUPPORT FRAME JUNCTION
	SUPPORTED, ANCHORING NOT REQUIRED FOR G3 TUNNEL
F1	ADJUSTABLE FLAT FEET 6"[152] SQUARE, MUST BE
	NOTE 9.
F2	PLAN VIEW OF ALL BOLT DOWN FEET. SEE DETAIL &
F3	ANCHOR BOLT HOLES, 3/4" DIAMETER
F4	GROUT HOLES, 2" DIAMETER
	MP2501 AND M7V4232.
H1	SHORTEST BOLT DOWN BRACKET, TYPICALLY FOR USE WITH
	MP2601, MP1550, MP1603, MP1604 & MP1656.
H2	STANDARD BOLT DOWN BRACKET, TYPICALLY FOR USE WITH
	M9V4840
Н3	21" TALL BOLT DOWN BRACKET, TYPICALLY FOR USE WITH
H4	25" TALLEST BOLT DOWN BRACKET, CONSULT FACTORY
S1	LIFTING BRACKET MOUNTING PLATE, SEE BDPF39G3SBDDE.

NOTES

- B BOLT DOWN FEET ARE USED TO PREVENT THE TUNNEL FROM "WALKING" AND MUST BE INSTALLED IN ADDITION TO ADJUSTABLE FLAT FEET WHICH SUPPORT THE MACHINI A PAIR OF BOLT DOWN FEET MUST BE INSTALLED ON THE END OF EACH SECTION, AND ONE PAIR OF BOLT DOWN FEET USED AT THE JUNCTION OF TWO SECTIONS, SEE PLAN VIEW.
- G3 TUNNELS CAN BE ORDERED IN VARIOUS COMBINATIONS OF 3 & 4 MODULE SECTIONS; SEE BDPF39G3CFCE. THIS DRAWING SHOWS 3 & 4 MODULE SUPPORT FRAMES AND THE LOAD SUPPORT FRAME. CONSULT THE SECCIFICATIONS FOR YOUR MACHINE BEFORE DETERMINING THE LOCATION OF ADJUSTABLE FEET AND BOLT DOWN BRACKETS.

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ATTENTION

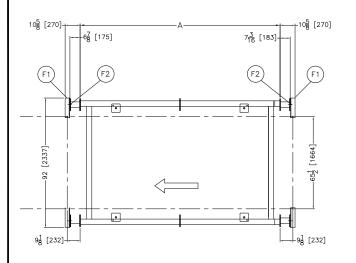
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FOUNDATION 76039G3 PF TUNNELS

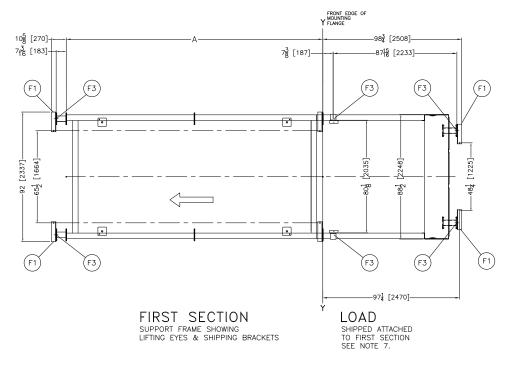


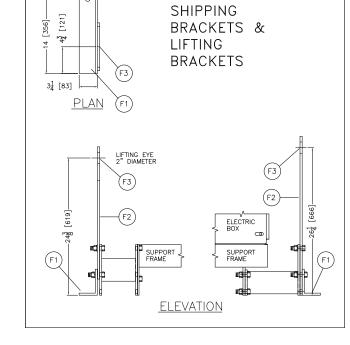
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DIMENSIONS TH	HAT VARY WITH
NUMBER OI	F MODULES
76039G3 PF TUNNELS	DIMENSION "A" INCHES mm
3 MODULE	142 1/8 3610
4 MODULE	182 1/4 4629



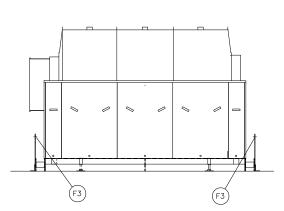
INDIVIDUAL TUNNEL SECTIONS SUPPORT FRAME SHOWING LIFTING EYES & SHIPPING BRACKETS



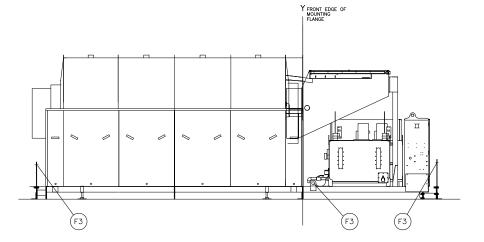


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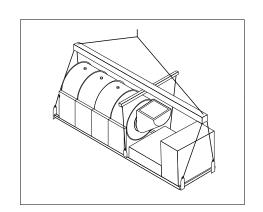
SHIPPING BOLT



USE 4 POINT LIFTING FOR INDIVIDUAL SECTIONS



USE 6 POINT LIFTING FOR LOAD AND 1ST SECTION



LIFTING EYE, 2"[51] DIAMETER

IFTING BRACKET

SHIPPING BRACKET FOR EXPORT, 7/8"[22] DIAMETER BOLT

LEGEND

NOTES

THIS DRAWING SHOWS 3, 4 & 5 MODULE SUPPORT FRAMES , AND THE LOAD SUPPORT FRAME. G3 TUNNELS CAN BE ORDERED IN VARIOUS COMBINATIONS OF 3, 4 & 5 MODULE SECTIONS. CONSULT THE SPECIFICATIONS FOR YOUR MACHINE BEFORE LOCATING THE SHIPPING BRACKETS.

MID AND END TUNNEL SECTIONS ARE SEPARATED BEFORE SHIPMENT, FIRST SECTION ARE SHIPPED WITH THE LOAD SUPPORT FRAME, TANK, & CONTROL BOX ATTACHED.

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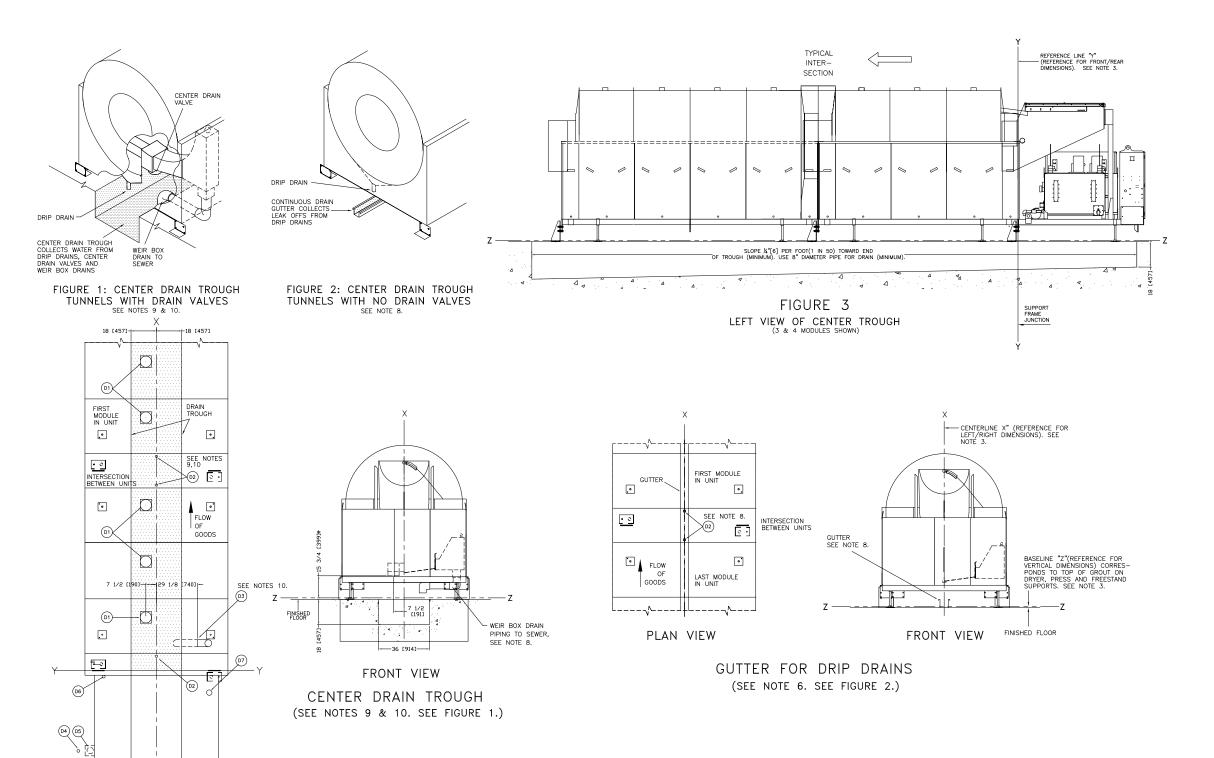
76039G3 PF SHIPPING BRACKETS







PELLERIN MILNOR CORPORATION
P.O. Box 400 Kenner, LA 70063, USA, Phone 504/467–9591,
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* SLOPE 1/4 [6] PER FOOT (1 IN 50) TOWARD END OF TROUGH (MINIMUM). USE 8" DIAMÉTER PIPE FOR DRAIN (MINIMUM).

TUNNEL DRAINS WHICH MUST BE ACCOMMODATED:

- PF TANK DRAIN -(MANUAL DRAIN, 2" HOSE CONNECTION OR OPTIONAL AUTO DRAIN 4-1/2" HOSE CONNECTION)
- · PF TANK OVERFLOW -(3" PVC CONNECTION)
- DRIP DRAINS -
- (TWO PER MODULE UNIT, 1-3/4 TUBING)
- CENTER DRAIN VALVES (OPTIONAL 1-2 DRAIN VALVES PER MODULE)
- WEIR BOX DRAINS TO SEWER -
- D7 PF TANK OVERFLOW TO SEWER, 3" PVC CONNECTION
 D6 PF TANK FRESH, MANUAL DRAIN 1-1/2" TOE FOR 2" HOSE
- D5 PF TANK REUSE, OPTIONAL AUTO DRAIN TO SEWER, 4-1/2'
- PF TANK REUSE, MANUAL DRAIN 1-1/2" TOE FOR 2" HOSE D3 WEIR BOX, FLOW TO SEWER, 5" NPT
- DRIP DRAINS, 1-3/4" ID TUBING SUPPLIED
- CENTER DRAIN VALVES, 8"DIAMETER, ON SPECIFIED MODULES
- LEGEND

NOTES

- 11 PF TANK DRAIN AND OVERFLOW PIPING TO SEWER SUPPLIED BY PMC.
 0 WEIR BOX DRAIN PIPING TO SEWER SUPPLIED BY PMC.
 9 A CENTER DRAIN TROUGH OR ITS EQUIVALENT IS NECESSARY TO COLLECT THE LEAK OFFS FROM THE DRIP DRAINS AND THE WATER FROM UNITS WITH A CENTER DRAIN VALVE.
- CENTER DRAIN VALVE.

 8 WHEN THERE ARE NO CENTER DRAIN VALVES OR WEIR BOX DRAINS, ECONTRIBUOUS OPEN DRAIN GUTTER FABRICATED OF STAINLESS STEEL, COPPER OR FLASTIC IS REQUIRED TO COLLECT THE LEAK OFFS FROM THE DRIP DRAINS. DRAINS ABSOLUTELY MUST NOT BE PIPED WITH CLOSED PIPING WHICH WILL COLLECT LINT AND BLOCK.

 7 NOTE THIS DRAWING SHOWS THE RECOMMENDED DRAIN TROUGH DESIGN. DRAIN TROUGH CONSTRUCTION IS THE RESPONSIBILITY OF OTHERS. THIS DRAWING CONVEYS NO EXPRESS OR IMPUED WARRANTY WITH REGARD TO THE CONSTRUCTION AND/OR SUITABILITY OF THESE DESIGNS FOR YOUR SPECIFIC INSTALLATION.

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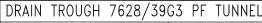
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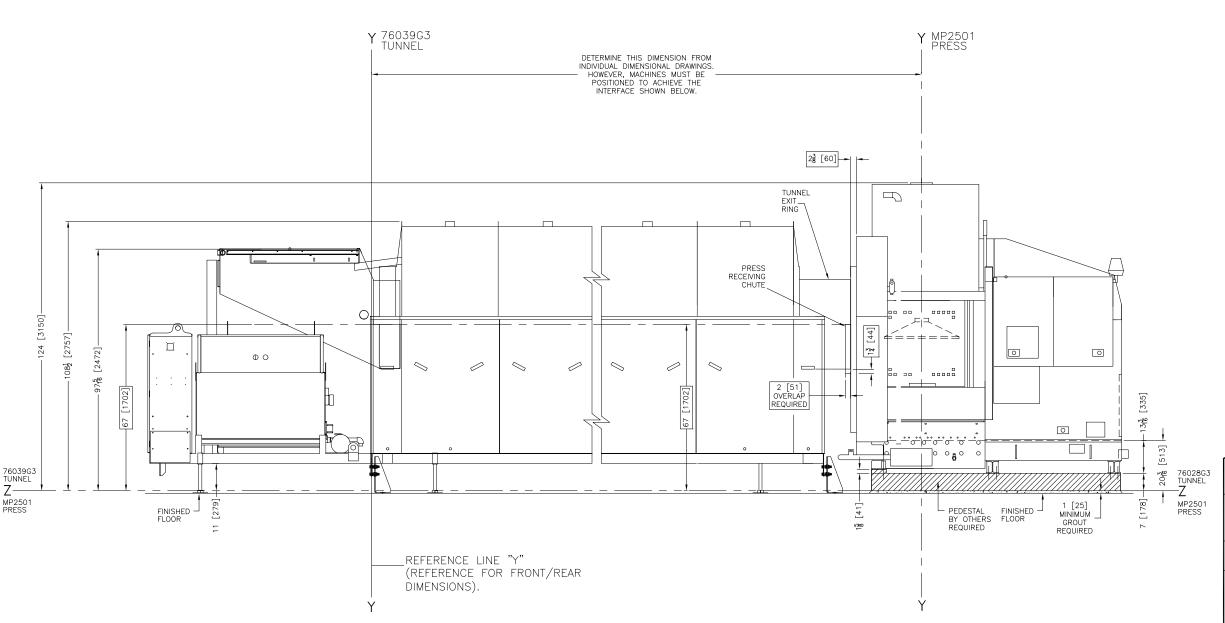
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PLAN VIEW



76039G3 PF TUNNEL/MP2501(50KG) 2 STAGE PRESS

NOTES

- SEE INDIVIDUAL DIMENSIONAL DRAWINGS FOR ADDITIONAL DIMENSIONS FOR ALL MACHINES, INCLUDING HEIGHT. MAITCH THIS DRAWING WITH THE INDIVIDUAL MACHINE DIMENSIONAL DRAWINGS UNION REFERENCE LINE "V" AND BASELINE "Z".

- MACHINES, INCLOURS HIGHLI, MAIGH INS DRAWING HIT HE INVIDUAL MACHINE DIMENSIONAL DRAWINGS USING REFERENCE LINE "Y" AND BASELINE "Z".

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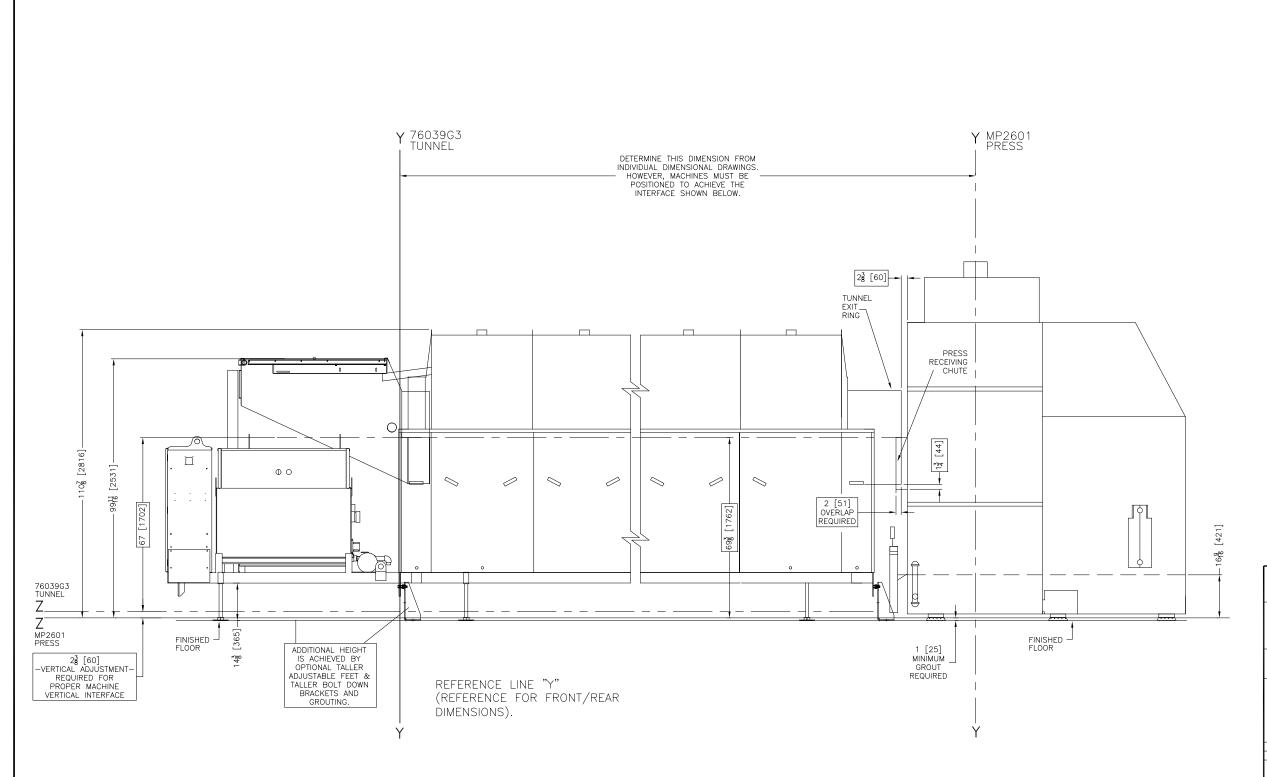
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7639G3 PF/MP2501



0.25M BDPF39G3INDDA 2018125D



76039G3 PF TUNNEL/MP2601(60KG) 2 STAGE PRESS

NOTES

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 4 BASELINE "Z" IS THE REFERENCE FOR ALL VERTICAL DIMENSIONS. ON MACHINES WITH FIXED BASE PADS, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE FEET WHEN ADJUSTED SO THAT THE MACHINE IS AT ITS MINIMUM ACCEPTABLE HEIGHT. ON TRAVERSING SHITTLES, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE BOTTOM RAIL. THE DISTANCE BETWEEN BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" BAND THE SINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" BAND THE SINISHED "Z" AND THE SINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" BANDEDOTIONS.
- THICK GROUT BED.

 3 USE REFERENCE LINES "X", "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.

 2 NUMBERS IN BRACKETS [] DENOTE DIMENSIONS IN MILLIMETERS.

 1 ALL DIMENSIONS SHOWN ARE APPROXIMATE, SUBJECT TO NORMAL MANUFACTURING TOLERANCES, AND TO OCCASIONAL CHANGES WITHOUT NOTICE THROUGH REDESION AND/OR RELOCATION OF COMPONENTS, ETC. DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED, AND IN NO EVENT PRE-PIPE CLOSER THAN FIVE FEET FROM MACHINE. FACTORY MUST BE CONSULTED FOR DIMENSIONS IF MACHINE IS TO BE MOVED THROUGH NARROW OR LOW CORRIDORS OR OPENINGS.

MOST REGULATORY AUTHORITIES (INCLUDING OSHA IN THE USA) HOLD THE OWNER/USER ULTIMATELY RESPONSIBLE TO MAINTAIN A SAFE WORKING ENVIRONMENT. ACCORDINGLY. THE OWNER/USER MUST REGOGNIZE ALL FORESESABLE SAFETY HAZARDS, FURNISH SAFETY INSTRUCTIONS AND GUIDANCE TO ALL PERSONNEL WHO MAY COME IN CONTACT WITH THE INSTALLATION, AND PROVIDE ALL NECESSARY ADDITIONAL SAFETY GUARDS, FENCES, RESTRAINTS, DEVICES, ETC., NOT FURNISHED BY THE EQUIPMENT MANUFACTURER OR VENDOR.

MANUFACTURER OR VENDOR.

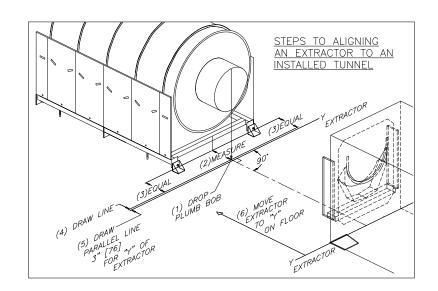
ATTENTION

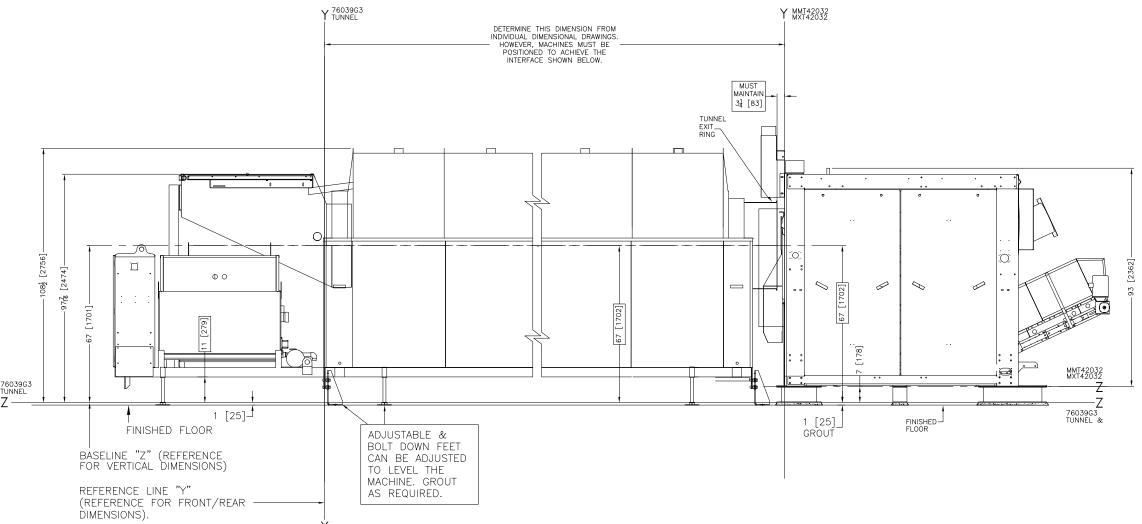
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INCLUDING THE GOODS, THE WATER, AND ANY REPEATED SINUSOIDAL (ROTATING) FORCES
GENERATED DURING ITS OPERATION. WRITE THE FACTORY FOR ADDITIONAL MACHINE
DATA FOR USE BY A COMPETENT SOIL AND/OR STRUCTURAL ENGINEER.





0.25M BDPF39G3INDDB 2018125D





76039G3 PF TUNNEL/MMT, MXT42032

NOTES

- SEE INDIVIDUAL DIMENSIONAL DRAWINGS FOR ADDITIONAL DIMENSIONS FOR ALL MACHINES, INCLUDING HEIGHT. MATCH THIS DRAWING WITH THE INDIVIDUAL MACHINE DIMENSIONAL DRAWINGS USING REFERENCE LINE "Y" AND BASELINE "Z".

- MACHINES, INCLUDING HEIGHT, MAIGH TISS DRAWING WITH THE INUITOBLE MACHINE DIMENSIONAL DRAWINGS USING REFERENCE LINE "Y" AND BASELINE "Z".

 6 AS OF THIS WRITING, THE MINIMUM CLEARANCE REQUIRED BY U.S. NATIONAL ELECTRIC CODES, FROM ELECTRIC BOX TO ANY DOBLECT IS:

 36 [914] IF OBJECT IS AN UNGROUNDED (INSULATED) WALL.

 42 [1067] IF OBJECT IS AN GOUNDED WALL (ie. BARE CONCRETE, BRICK, ETC.)

 48 [1219] IF OBJECT IS ANY LIVE PART.

 5 CUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT DISCONNECT (SAFETY) SWITCHES WITH LAG TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO EQUIPMENT.

 4 BASELINE "Z" IS THE REFERENCE FOR ALL VERTICAL DIMENSIONS. ON MACHINES WITH FIXED BASE PADS, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE FEET WHEN ADJUSTED SO THAT THE MACHINE IS AT ITS MINIMUM ACCEPTABLE HEIGHT. ON TRAVERSING SHITTLES, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE BOTTOM RAIL. THE DISTANCE BETWEEN BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" BANDON THE PRICED FLOOR WILL VARY AS REQUIRED TO ENSURE BASELINE "Z" BANDON THE BOTTOM CONTENT OF THE BOTTOM CONTENT OF THE BOTTOM SELECTED TO THE BOTTOM SELECTED TO THE BOTTOM SELECTED TO THE SET ON A MINIMUM 1"[25]

 3 USE REFERENCE LINES "X", "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.
- THICK GROUT BED.

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 1 ALL DIMENSIONS SHOWN ARE APPROXIMATE, SUBJECT TO NORMAL MANUFACTURING TOLERANCES, AND TO OCCASIONAL CHANGES WITHOUT NOTICE THROUGH REDESION AND/OR RELOCATION OF COMPONENTS, ETC. DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED, AND IN NO EVENT PRE-PIPE CLOSER THAN FIVE FEET FROM MACHINE. FACTORY MUST BE CONSULTED FOR DIMENSIONS IF MACHINE IS TO BE MOVED THROUGH NARROW OR LOW CORRIDORS OR OPENINGS.

MOST REGULATORY AUTHORITIES (INCLUDING OSA OPENINGS.

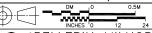
MOST REGULATORY AUTHORITIES (INCLUDING OSHA IN THE USA) HOLD THE OWNER/USER ULTIMATELY RESPONSIBLE TO MAINTAIN A SAFE WORKING ENVIRONMENT. ACCORDINGLY, THE OWNER/USER MUST RECOGNIZE ALL FORESEEABLE SAFETY HAZARDS, FURNISH SAFETY INSTRUCTIONS AND GUIDANCE TO ALL PERSONNEL WHO MAY COME IN CONTACT WITH THE INSTALLATION, AND PROVIDE ALL NECESSARY ADDITIONAL SAFETY GUARDS, FROMES, RESTRAINTS, DEVICES, ETC., NOT FURNISHED BY THE EQUIPMENT MANUFACTURER OR VENDOR.

MANUFACTURER OR VENDOR.

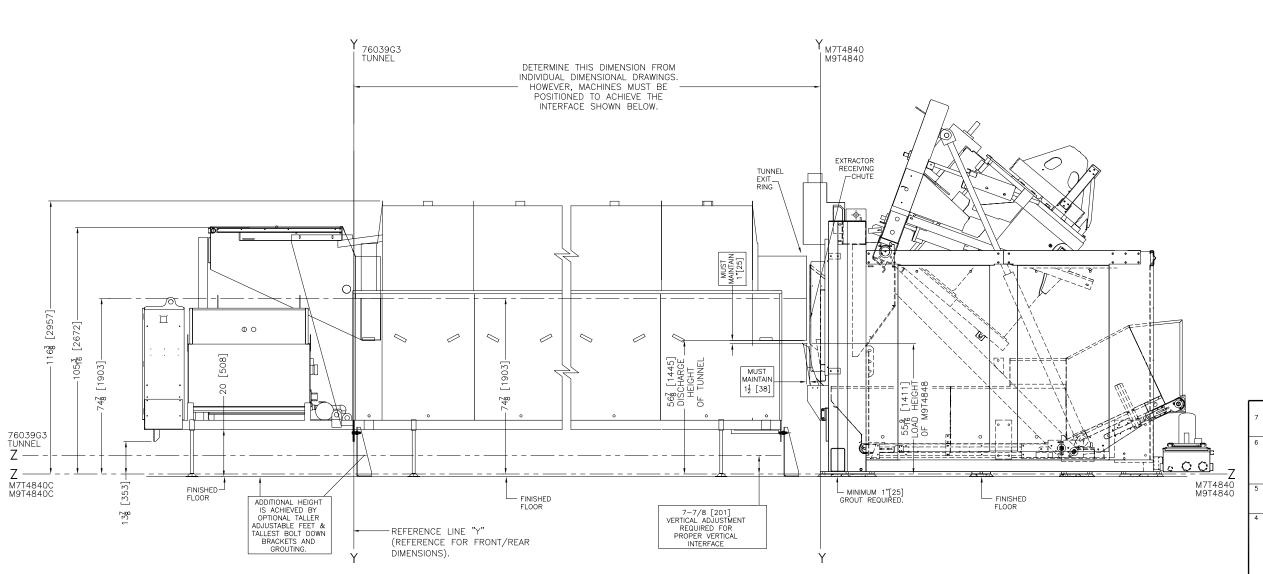
ATTENTION

THE FLOOR AND/OR OTHER SUPPORT COMPONENTS MUST HAVE SUFFICIENT
STRENGTH (AND RIGIDITY WITH DUE CONSIDERATION FOR NATURAL OR RESONANT
FREQUENCY THEREOF) TO WITHISTAND THE FULLY LOADED WEIGHT OF THE MACHINE
INCLUDING THE GOODS, THE WATER, AND ANY REPEATED SINUSOIDAL (ROTATING) FORCES
GENERATED DURING ITS OPERATION. WRITE THE FACTORY FOR ADDITIONAL MACHINE
DATA FOR USE BY A COMPETENT SOIL AND/OR STRUCTURAL ENGINEER.

76039G3 PF/MMT,MXT42032



0.5M BDPF39G3INDDE 2 24 2018125D



76039G3 TUNNEL/M7T,M9T4840 EXTRACTOR

- SEE INDIVIDUAL DIMENSIONAL DRAWINGS FOR ADDITIONAL DIMENSIONS FOR ALL MACHINES, INCLUDING HEIGHT. MATCH THIS DRAWING WITH THE INDIVIDUAL MACHINE DIMENSIONAL DRAWINGS USING REFERENCE LINE "Y" AND BASELINE "Z".

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 36 [914] IF OBJECT IS AN JUNGROUNDED (INSULATED) WALL

 42 [1067] IF OBJECT IS A CROUNDED WALL (ie. BARE CONCRETE, BRICK, ETC.)

 48 [1219] IF OBJECT IS ANY LIVE PART.

 5 CUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT DISCONNECT (SAFETY) SWITCHES WITH LAG TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO EQUIPMENT.

 4 BASELINE "Z" IS THE REFERENCE FOR ALL VERTICAL DIMENSIONS. ON MACHINES WITH FIXED BASE PADS, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE BASE PAD. ON MACHINES WITH ADJUSTABLE FEET, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE BASE PAD. ON MACHINES WITH ADJUSTABLE FEET, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE BOTTOM OF THE BOTTOM APIL THE BOTTOM OF THE BOTTOM FAIL THE DISTANCE BETWEEN BASELINE "Z" AND THE FINISHED FLOOR WILL WARY AS REQUIRED TO ENJURE BASELINE "Z" IS HORZOND THE INISHED FLOOR WILL AND ANY INTERFACING MACHINES REQUIRING GROUT ARE SET ON A MINIMUM 1"[25] THICK GROUT BED.

 3 USE REFERENCE LINES "X", "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.
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MANUFACTURER OR VENDOR.

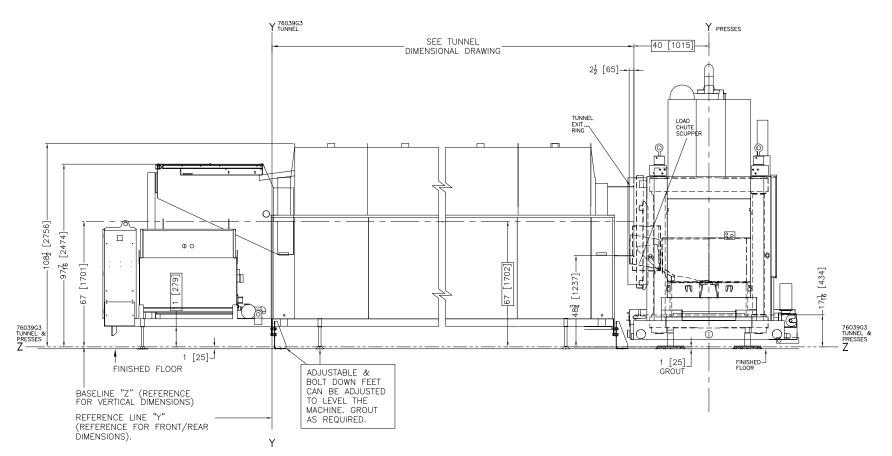
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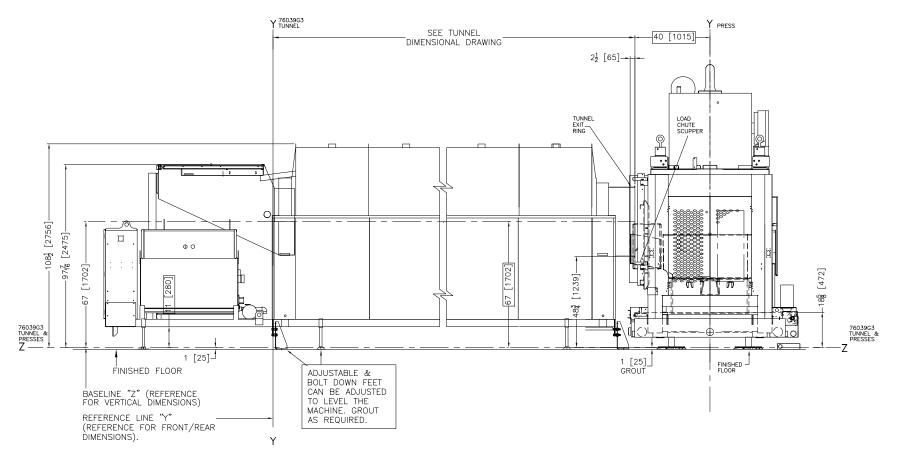
76039G3 PF/M7T,M9T4840



BDPF39G3INDDF 2018125D



76039G3 PF TUNNEL/MP1540 SINGLE STAGE PRESSES



76039G3 PF TUNNEL/MP1556, MP1640, MP1656 SINGLE STAGE PRESSES

NOTES

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 51 [107] IF OBJECT IS A GROUNDED WALL
 52 [107] IF OBJECT IS A GROUNDED WALL
 53 [1219] IF OBJECT IS ANY LIVE PART.
 CHECK LOCAL ELECTRIC CODES FOR FIRTHER RESTRICTIONS.
 54 [1219] IF OBJECT IS ANY LIVE PART.
 CHECK LOCAL ELECTRIC CODES FOR FIRTHER RESTRICTIONS.
 55 CUSTOMER TO SUPPLY CIRCUIT BREAKER OR FUSED BRANCH CIRCUIT DISCONNECT (SAFETY) SWITCHES WITH LAG TYPE FUSES FROM POWER SOURCE TO MACHINE. A SEPARATE GROUND WIRE MUST BE CONNECTED FROM DISCONNECT TO EQUIPMENT.
 64 ASSELINE "Z" IS THE REFERENCE FOR ALL VERTICAL DIMENSIONS. ON MACHINES WITH FIXED BASE PADS, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE BASE PAD. ON MACHINES WITH ADJUSTABLE FEET, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE FEET WHEN ADJUSTED SO THAT THE MACHINE IS AT ITS MINIMUM ACCEPTABLE HEIGHT. ON TRAVERSING SHUTTLES, BASELINE "Z" CORRESPONDS TO THE BOTTOM OF THE BOTTOM ARIL THE DISTANCE BETWEEN BASELINE "Z" AND THE FINISHED FLOOR WILL VARY AS REQUIRED TO ENJURE BASELINE "Z" IS HORZONTAL AND ANY INTERFACING MACHINES REQUIRING GROUT ARE SET ON A MINIMUM 1"[25] THICK GROUT BEEN." "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.
- THICK GROUT BED.

 3 USE REFERENCE LINES "X", "Y", AND "Z" TO LOCATE ALL SERVICE CONNECTIONS.

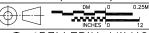
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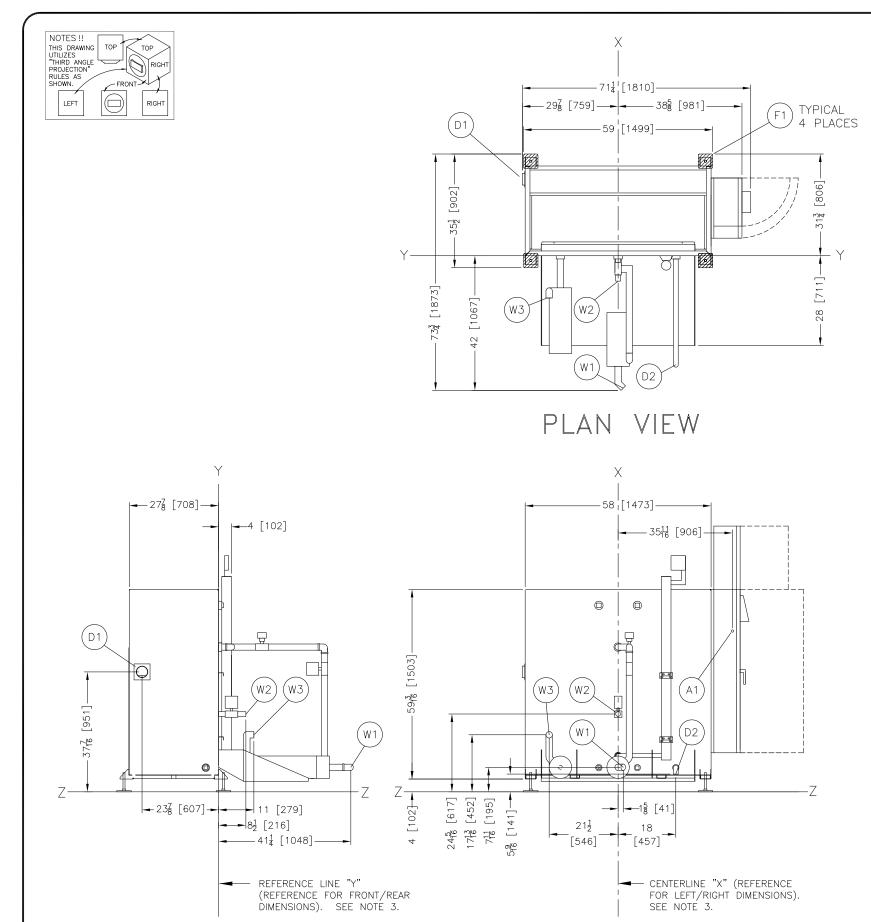
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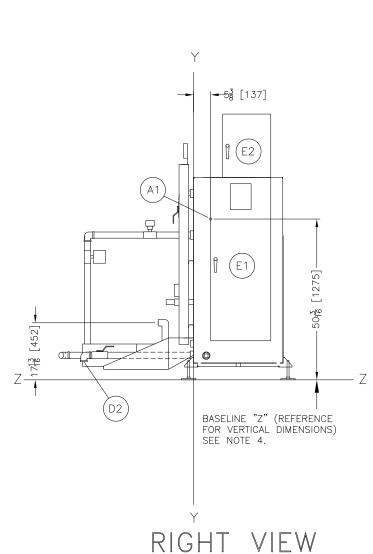
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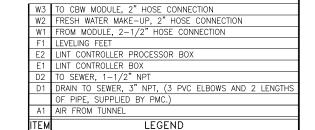
FRONT VIEW



 $4\frac{1}{2}$ [114]

DETAIL

LEVELING FOOT



NOTES

NOTES

7 ALL COMPONENTS SHOWN RECEIVE ELECTRICAL POWER FROM THE CBW. NO EXTERNAL POWER IS REQUIRED FOR ANCILLARY COMPONENTS.

6 AS OF THIS WRITING, THE MINIMUM CLEARANCE REQUIRED BY U.S. NATIONAL ELECTRIC CODES, FROM ELECTRIC BOX 17 O.ANY OBJECT IS:

36 [914] IF OBJECT IS AN UNGROUNDED (INSULATED) WALL.

42 [1067] IF OBJECT IS ANY LIVE PART.

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MANUFACTURER OR VENDOR.

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LEFT VIEW