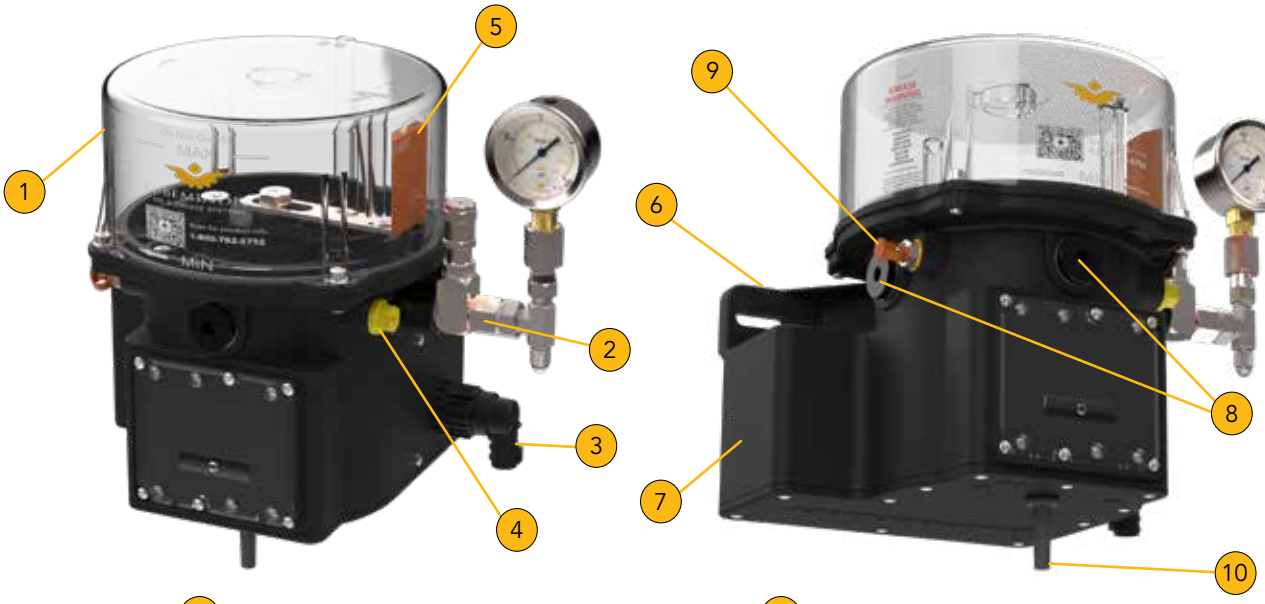
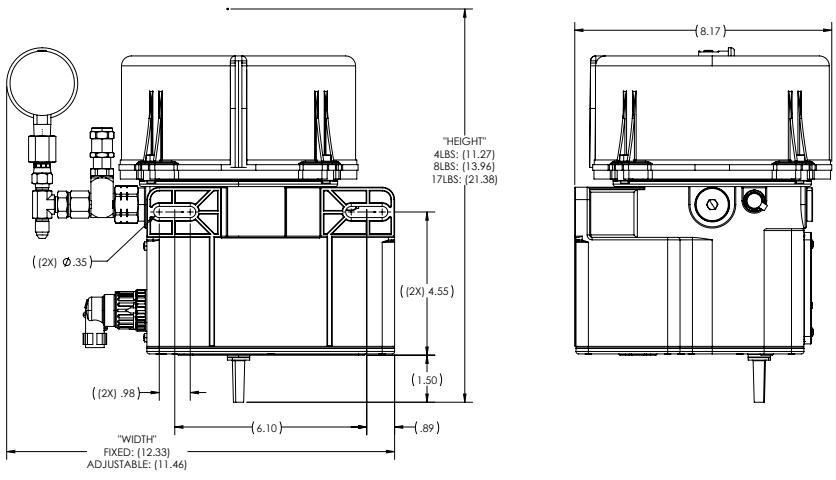
PUMP WITHOUT INTEGRATED CONTROLLER OVERVIEW



1	Reservoir	6	Mounting bracket
2	Pumping element	7	Pump body
3	Power supply connection (TYCO DIN)	8	Auxiliary pumping element caps
4	Over pressure return to tank inlet (opt.)	9	Reservoir lubricant inlet zerk
5	Rotating arm	10	Condensate drain

- Pump must be secured in a vertical position with two (recommend 5/16-18 or M8-1.25) bolts, nuts, and washers through the integrated mounting bracket of the pump body.
- Provide space above the unit for any tank disassembly. Leave approximately 4" of peripheral space in relation to other equipment or obstacles.
- In the case of filling with a cartridge pump (170-2266), provide the necessary clearance to the inlet as well. See diagram below for bracket slot pattern (4lb reservoir shown).
- Do not install the pump submerged in liquids and/or in particularly aggressive environments.
- Do not install the pump in environments where there are explosive or flammable mixtures.
- Install the pump away from heat sources that may disturb operation.
- All rigid pipes, flexible hoses, and fittings must be compatible with the lubricant, operating pressure of the pump, and the surrounding environment.
- Make sure pipes and cables are appropriately secured and protected from impact.

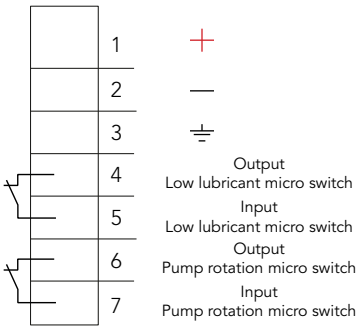


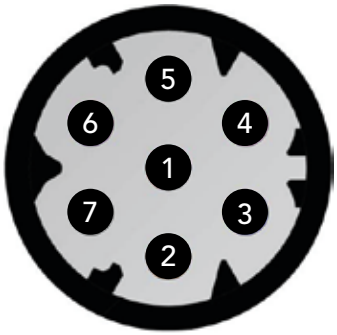
GENERAL POWER REQUIREMENTS

Part Number	Nominal Voltage	Current (dependent on load)	Current (maximum)	In-Rush Current (maximum)	Recommended Fuse (maximum)
170-X-24-X-0	24 V DC	1.25 A	< 2.5 A	4.5 A	3.0 A
170-X-12-X-0	12 V DC	2.40 A	< 5.0 A	9.0 A	5.0 A

- Electric connections must use a sufficient power supply using the table above.
- The proper wire gauge must be used for the distance the power cable runs from power supply to the pump input.
- It is strongly recommended to monitor the cycle rotation switch or current in the case that the pump outlet is plugged.
- Wiring to the low level micro switch is optional but is also a standard feature.
- The TYCO DIN connector is on the left side of the pump.

Pump Pin Diagram





The micro switch contact between 4 and 5 is normally closed. When the tank is empty, there will be a pulse per revolution. This can be used by an external controller, to signal a lack of lubricant alarm.

The micro switch contact between 6 and 7 is also normally closed. There will be a pulse per revolution. If the pulses are interuppted for more than 20 seconds, it's recommended to have a controller stop the pump and indicate an alarm.

Micro Switch Electrical Data (DC or peak AC)		
Voltage	Current Min.	Current Max
0 to 175 V AC/DC	0.5 A	1.0 A

Caution!
The power supply voltage to the switches (4-5 and 6-7) must not exceed the values given in the table.

Electrical / Signal Connector

The pump is supplied complete with a IP67/IP69K seven-pin electrical circular TYCO DIN connector, which powers the pump and manages the pump rotation and level signals. A total of twenty-one wire seals are included, seven per type, for different cable wire diameters and/or unused contacts. Die Set 58606-2 with a Pro-Crimper III can be used for the 1.5mm socket contacts that are also provided and compatible with a 13-17 AWG wire that has an insulation diameter of .086-.118 in. The provided 90° Strain Relief is sized for a .334" diameter cable.

NOTE: Sockets will need to be inserted in the proper location to mate up with corresponding pin on pump.

On request, the connector can be ordered complete with a 7-wire 24' length cable:
Part Number 170-2267

Wire Seal Color	Wire Guage
Blue	17 to 14
White	13
Brown	Cavity Blanking Cap