General Features

The Upgrade grinder pump is engineered to fit into virtually any grinder pump wetwell. Universal design allows easy drop-in conversion, ready to connect. The Upgrade is a complete replacement for all of the troublesome components of a centrifugal pump station, including the old unit’s slide rails, pump/motor, float switches, piping, and motor control devices.

- Designed not to jam and for minimum wear to the grinding mechanism
- Retrofit simplex or larger stations
- Available with a range of discharge hose lengths to accommodate a wide range of tank depths

The Upgrade comes complete with a self-contained level control system, eliminating troublesome float switches. The internal check valve assembly located on the grinder pump is custom designed for non-clog, trouble-free operation. The Upgrade uses E/One’s “hardwired,” or “wired,” pump model where a cable connects the motor controls to the level controls through watertight penetrations.

Operational Information

Motor
1 hp, 1,725 rpm, high torque, capacitor start, thermally protected, 120/240V, 60 Hz, 1 phase

Discharge Connections
Pump discharge terminates in 1.25-inch female solvent weld fitting; threaded adapter is supplied and discharge can easily be adapted to 1.25-inch NPT.

Discharge
- 15 gpm at 0 psig (0.95 lps at 0 m)
- 11 gpm at 40 psig (0.69 lps at 28 m)
- 7.8 gpm at 80 psig (0.49 lps at 56 m)

Accessories

E/One recommends that the Uni-Lateral, E/One’s own stainless steel check valve, be installed between the grinder pump station and the street main for added protection against backflow.

Alarm panels are available with a variety of options, from basic monitoring to advanced notice of service requirements.

The Remote Sentry is ideal for installations where the alarm panel may be hidden from view.
UPGRADE
GRINDER PUMP

LNT GAE 04/24/07 -
DR BY CHK'D DATE ISSUE SCALE

UPGRADE FEATURES

NA0055P01
UPGRADE
GRINDER PUMP

Ø 1-1/4"
DISCHARGE
SLIDE FACE
QUICK DISCONNECT
[32 mm]

Ø 2.0
[51 mm]

2.9"
[74 mm]

13.1"
[333 mm]

13.84"
[352 mm]

17.84"
[453 mm]

25.84"
[656 mm]

ALARM
ON
OFF

Ø .50 SUPPLY POWER CABLE
[13 mm]

31.52"
[800 mm]

Ø 13.0"
[330 mm]

3.25"
[82.8 mm]

eone
SEWER SYSTEMS

DIMENSION SHEET, UPGRADE

NA0055P02
CENTRIFUGAL STATION TO BE UPGRADED TO...

* IN THE MAJORITY OF UPGRADE INSTALLATIONS THE EXISTING INLET, DISCHARGE, AND POWER SUPPLY CABLES CAN BE UTILIZED WITHOUT MODIFICATION INCLUDING J-BOX AND FEED-THRU'S
TYPICAL SIMPLEX UPGRADE INSTALLATION
USING VERTICAL SLIDE FACE AND COILED HOSE

- MUSHROOM VENT (IF NOT EXISTING, AVAILABLE AS AN ACCESSORY)
- EXISTING PUMP STATION
- ELECTRICAL QUICK DISCONNECT NEMA 6P (EQU)
- PVC DISCHARGE SLIDE FACE QUICK DISCONNECT W/ VERTICAL PVC SLIDE FACE VALVE
- DISCHARGE LINE
- EXISTING DISCHARGE FITTING
- FLEXIBLE 1-1/4" DIA [31.8 mm]
- DISCHARGE HOSE (AVAIL. L = 48"-120") [1.2M - 3.0M]
- AND STAINLESS STEEL FACTORY INSTALLED PERMANENT HOSE CLAMPS
- ANTI-SIPHON CHECK VALVE (NORYL)
- SEMI-POSITIVE DISPLACEMENT TYPE PUMP, EACH DIRECTLY DRIVEN BY A 1 HP MOTOR
- INCOMING GRAVITY LINE
- EXISTING INLET FITTING 30° (762 mm) MIN
- PUMP STAND (300 SERIES SS)
- LIFTING ROPE (NYLON)
- POWER/ALARM CABLE 6 CONDUCTOR W/GND
- E/ONE EQUALIZER

UPGRADE INSTALLATIONS CAN ACCOMODATE EXISTING TANKS UP TO 160° (4.0 M) *** CONSULT FACTORY FOR APPLICATIONS OVER 160° (4.0 M)

* STATION MUST BE VENTED
** DISCHARGE HEIGHT MUST BE KNOWN WITHIN 3 FEET (1.0 M) TO ORDER PROPER KIT
*** DISCHARGE HEIGHT MUST NOT BE GREATER THAN 160 INCHES (4.0 M)

DETAIL SHEET, UPGRADE SIMPLEX VERTICAL SLIDE FACE, COILED HOSE

NA0055P04