

## DX502

### Description

The E/One model DX explosionproof grinder pump is engineered to meet the stringent Factory Mutual™ explosionproof equipment standards for use in locations classified as Class I, Division 1, Group D (approval standards 3600, 3610, and 3615). The DX502 is a 500-gallon capacity grinder pump station that contains two explosionproof grinder pumps. Note: Only the pumps are listed by FM for explosionproof equipment.

### General Features

The DX502 comes complete with a self-contained level control system, eliminating troublesome float switches. The pump uses radio frequency identification (RFID) technology to communicate between the level controls and the motor controls. The grinder pumps are automatically activated and run infrequently for very short periods.

The internal check valve assemblies, located in the grinder pumps, are custom-designed for non-clog, trouble-free operation.

- 500 gallons (1893 liters) of capacity; HDPE tank and lid
- Rated for flows of 6000 gpd (22,714 lpd)
- Available in heights of 129 inches and 160 inches; height adjustment can be performed in the field

E/One requires 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.

### Operational Information

#### *Motors*

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

#### *Inlet Connections*

4-inch inlet grommet standard for DWV pipe. Other inlet configurations available from the factory.

#### *Discharge Connections*

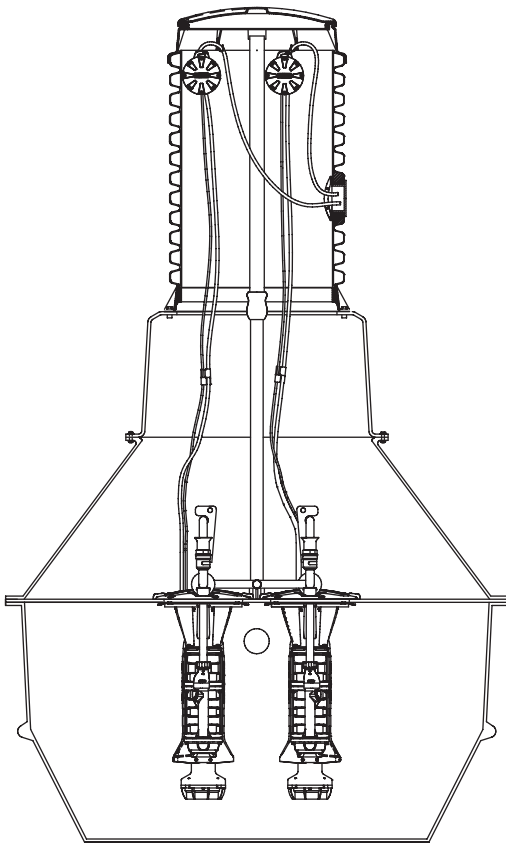
Pump discharge terminates in 1.25-inch NPT female thread. Can easily be adapted to 1.25-inch PVC pipe or any other material required by local codes.

#### *Discharge (per pump)*

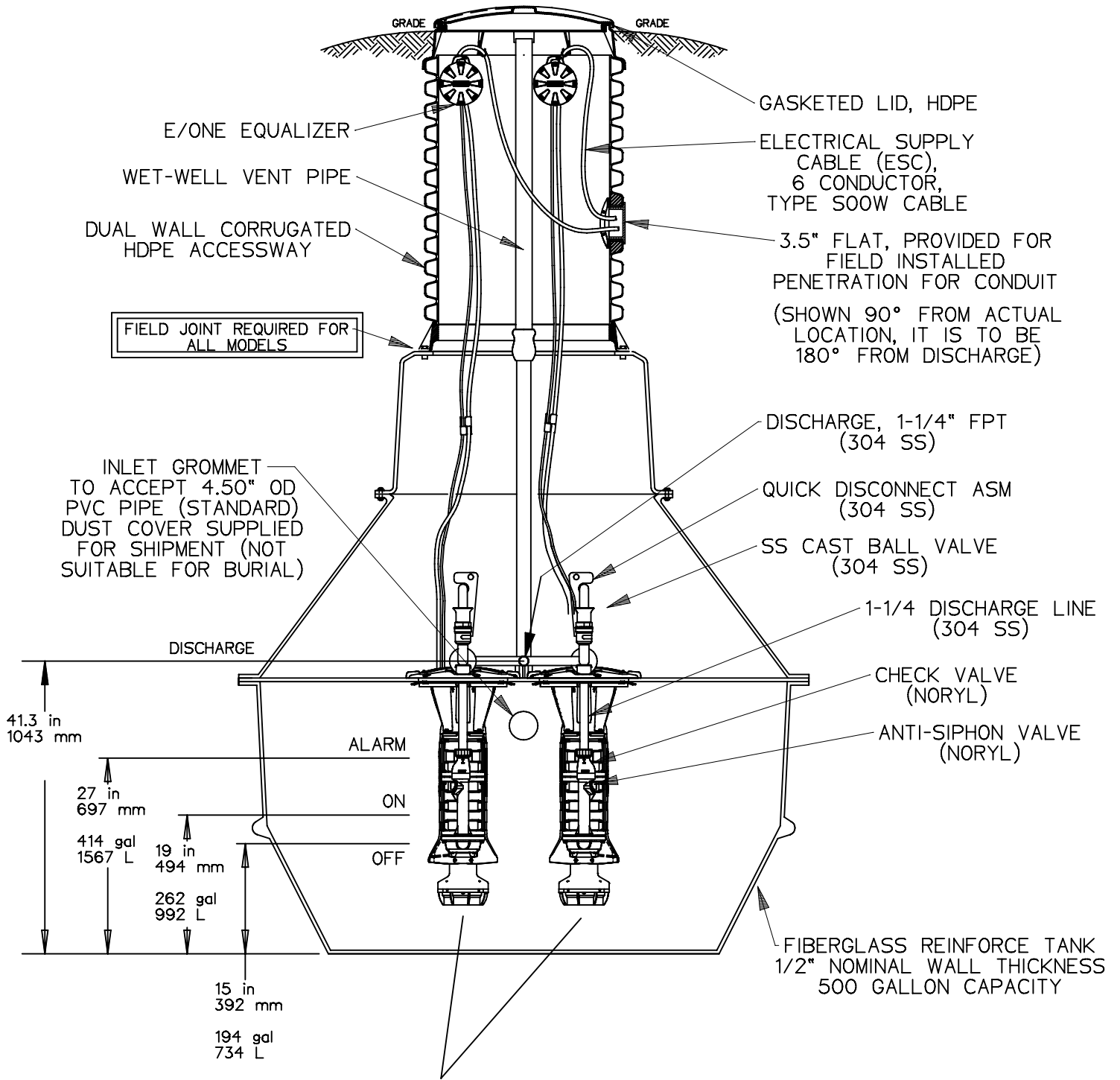
15 gpm at 0 psig (0.95 lps at 0 m)

11 gpm at 40 psig (0.69 lps at 28 m)

7.8 gpm at 80 psig (0.49 lps at 56 m)



# DX502



FIELD JOINT REQUIRED FOR ALL MODELS

INLET GROMMET TO ACCEPT 4.50" OD PVC PIPE (STANDARD) DUST COVER SUPPLIED FOR SHIPMENT (NOT SUITABLE FOR BURIAL)

41.3 in  
1043 mm

27 in  
697 mm

414 gal  
1567 L

19 in  
494 mm

262 gal  
992 L

15 in  
392 mm

194 gal  
734 L

SEMI-POSITIVE DISPLACEMENT TYPE PUMP EACH DIRECTLY DRIVEN BY 1 HP MOTOR CLASS I, DIV 1, GROUP D

**NOTE:**

THE PUMP ASSEMBLIES ARE LISTED BY ETL TO FACTORY MUTUAL (FM) STANDARDS FOR CLASS I, DIVISION I, GROUP D, THE LEVEL CONTROL SYSTEM, INTEGRAL TO THE PUMP, IS INTRINSICALLY SAFE (THE STATION IS NOT PART OF THE LISTING)  
-ALSO AVAILABLE APPROVED BY CSA FOR CLASS 1, DIVISION 1, GROUP D

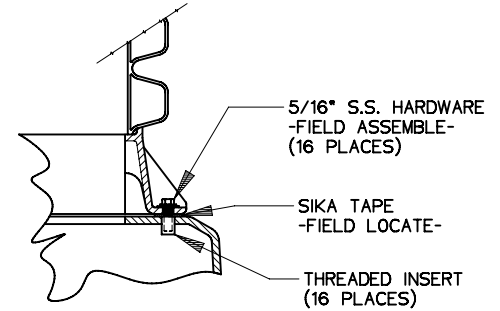
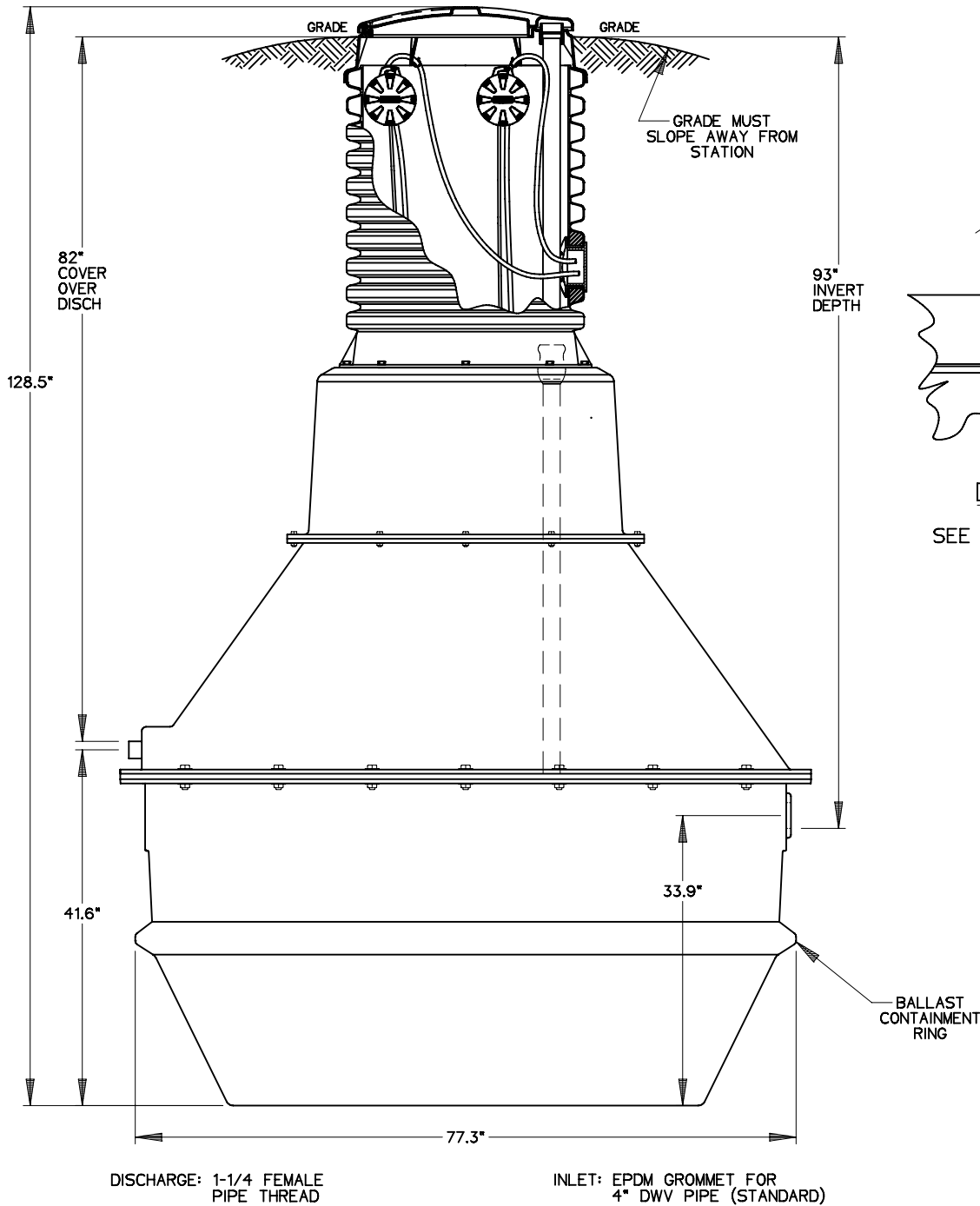
SGS	MC	01/17/12	C	
DR BY	CHK'D	DATE	ISSUE	SCALE



MODEL DX502, EXPLOSIONPROOF PUMP  
DETAIL SHEET

NA0204P02

# DX502-129



## DETAIL, FIELD JOINT

SEE INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS

CONCRETE BALLAST MAY BE REQUIRED  
SEE INSTALLATION INSTRUCTIONS  
FOR DETAILS

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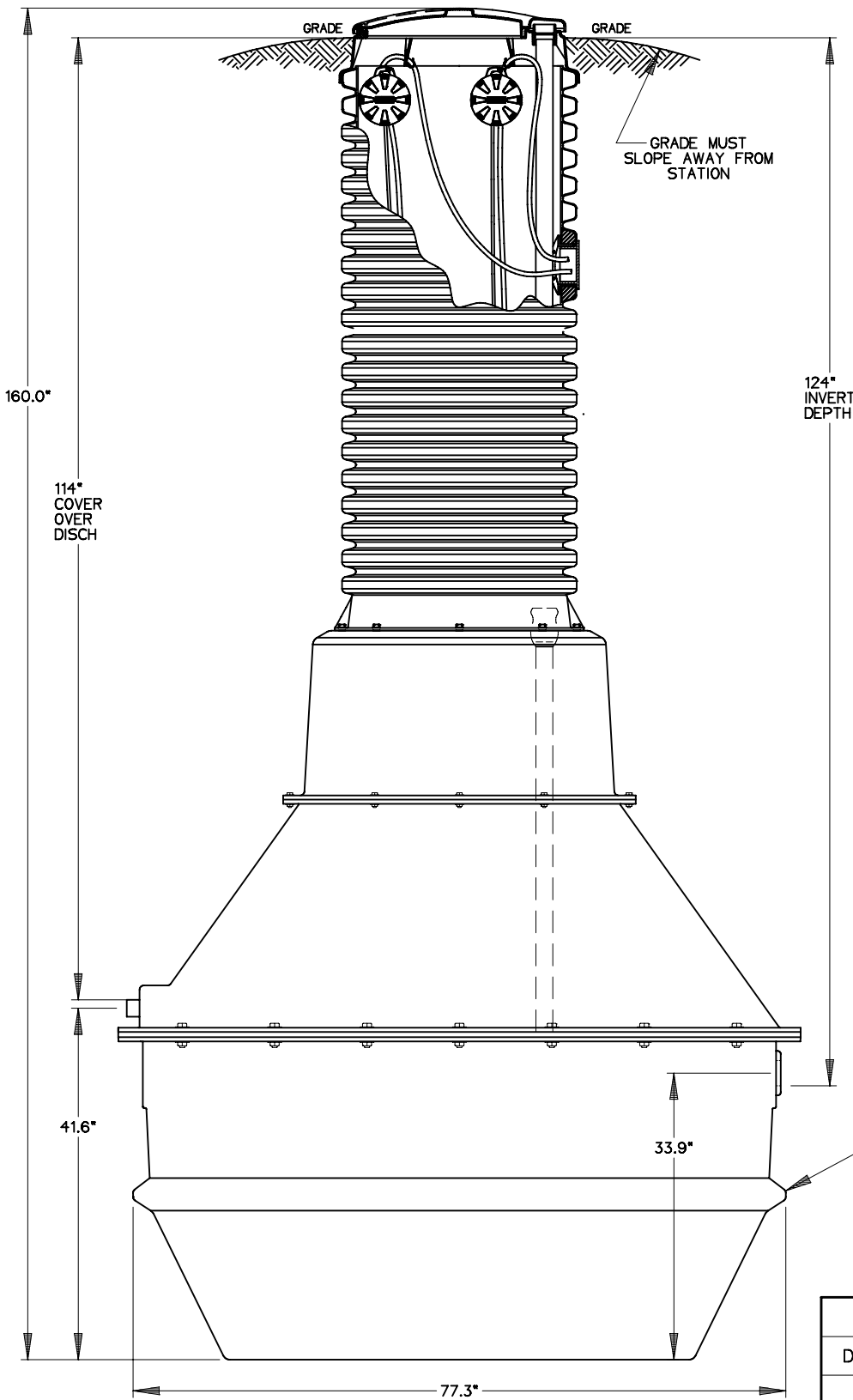
SGS	CAH	12/3/10	A	1/20
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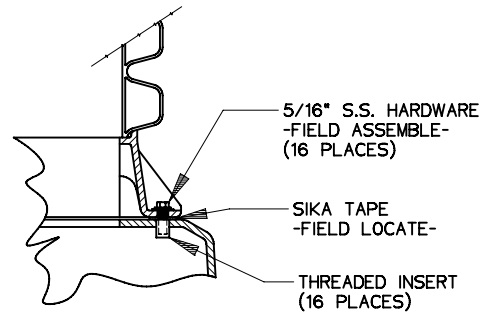
MODEL DH502-129  
EXPLOSIONPROOF PUMP

NA0204P03

# DX502-160



GRADE MUST SLOPE AWAY FROM STATION



## DETAIL, FIELD JOINT

SEE INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS

CONCRETE BALLAST MAY BE REQUIRED  
SEE INSTALLATION INSTRUCTIONS FOR DETAILS

BALLAST CONTAINMENT RING

DISCHARGE: 1-1/4 FEMALE PIPE THREAD

INLET: EPDM GROMMET FOR 4" DWV PIPE (STANDARD)

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SGS	CAH	12/3/10	A	1/20
DR BY	CHK'D	DATE	ISSUE	SCALE



MODEL DX502-160  
EXPLOSIONPROOF PUMP

NA0204P04