



**1. DESCRIPTION OF EQUIPMENT**

The type Jenny J37HX/J37MX pump motor was manufactured from SG60 cast iron and comprises of a stator casing, DE shield, NDE shield and junction box. The pump had a general length of  $\pm 905$  mm and an internal volume of approximately  $\pm 16\ell$

The pump has a connection box which is fabricated to the submersible pump housing. The junction box made provision for one cable gland which formed part of the NDE shield. The junction box had an internal free volume of approximately  $\pm 4.2\ell$ .

The pump incorporated the following flameproof joints:

Location of joint	Type of joint	Seals
<b>Junction Box and Stator Housing</b> Drawing # JENNY J378X Flameproof Ass'y Detail 1	Spigot	O-ring type seal fitted into a groove on the oil box (NDE shield).
<b>Stator Housing &amp; Oil Box</b> Drawing# JENNY J378X Flameproof Ass'y Detail 2	Spigot	O-ring type seal fitted into a groove on the oil box (DE shield).
<b>DE bearing cover &amp; Oil Box</b> Drawing # JENNY J378X Flameproof Ass'y Detail 3	Spigot	O-ring type seal fitted into a groove on the flameproof cover.
<b>Bearing Housing &amp; Bearing Cover</b> Drawing # JENNY J378X Flameproof Ass'y Detail 4	Spigot	N/A
<b>Bearing Cover &amp; Shaft</b> Drawing # JENNY J378X Flameproof Ass'y Detail 5	Flange	N/A
<b>Connection Box Cover &amp; Cable gland</b> Drawing # JENNY J378X Flameproof Ass'y Detail 8	Cable Gland	Flame path was sealed Polyurethane Gland plug
<b>Connection Box &amp; Junction Box Cover</b> Drawing # JENNY J378X Flameproof Ass'y Detail 9	Cemented	N/A

**Fasteners**

The following fasteners were used in the assembly of the motor:

Location	Qty	Size & Length	Pitch	Class
<b>Junction Box and Stator Housing</b>	6	HTS Stud/ Nut M12x 85	1.5	ss304-A-70
<b>Stator Housing &amp; Oil Box</b>	12	HTS Stud/ Nut M12x 65	1.5	ss304-A-70
<b>DE bearing cover &amp; Oil Box</b>	6	HTS Capscrews M12 x 30	1.5	ss304-A-70
<b>Connection Box Cover &amp; Cable gland</b>	8	HTS Capscrews M8 x 30	1.25	ss304-A-70
<b>Bearing Housing &amp; Bearing Cover</b>	6	HTS Capscrews M8 x 30	1.25	ss304-A-70
<b>Connection Box Cover &amp; Cable gland</b>	8	HTS Capscrews M8 x 30	1.25	ss304-A-70

**2. SPECIAL CONDITIONS FOR SAFE USE (denoted by X after certificate number)**

- Some flamepath dimensions are different than the relevant values given in Table 1 of SANS 60079-1. For repair work the Original Equipment Manufacturer must be consulted for information regarding the flamepath lengths. (Refer to Operation Manual AP/PM550/0616)
- The pump shall only operate when submerged in a fluid product as per the manufacture Operations Manual and must be monitored.

**3. INSTALLATION INSTRUCTIONS**

It is the manufacturer's responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

**4. CONDITIONS OF CERTIFICATION**

- All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.

**5. MARKING**

The following (or similar) information have to be clearly and permanently marked on all units:

Supplier : Amandla Pump (Pty) Ltd  
Manufacturer : Amandla Pump (Pty) Ltd  
Equipment : Dewatering Submersible Pump  
Model/Type : Jenny J37HX/J37MX  
Serial No. : ---  
Ex Rating : Ex d I Mb  
IA Certificate No : M-XPL/17.1628 X

**Responsible Testing Officer:**



**K Malibe**  
Testing Officer

**Reviewed by:**



**D Maree**  
Senior Testing Officer

**EXPLOLABS EXPLOSION PREVENTION SERVICES**

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