



## 1. GENERAL

The marking of the Valve Position Monitor shall include the following:

**Ex nA mc IIC T5 Gc Ta = -18°C to 50°C, IP67; Ex nA mc IIC T5 Gc Ta = -10°C to 60°C, IP67; Ex nA mc IIC T5 Gc Ta = -40°C to 70°C, IP67**

**Description of Equipment or Protective System:**

The Axiom Series AMI Valve Position Monitor is designed to monitor and control the position of a valve. The apparatus consists of a sensing and communication module, an optional solenoid or solenoids for pneumatic control, connection options to plant electrical and communication systems and a visual indicator to the fluid being processed.

All of the electronic components in the apparatus are encapsulated using type Conathane EN-14 Black urethane encapsulant manufactured by Cytec Industries.

The apparatus is enclosed in an aluminum housing with a SABIC/GE Lexan 143R-1111 polycarbonate cover and is intended to be attached directly to various actuators/valves.

The Apparatus has the following maximum voltage ratings:

Type AMI33: V = 75Vdc

Type AMI44: V = 24Vdc

Type AMI92: V = 24Vdc

Type AMI93: V = 32Vdc

Type AMI94: V = 32Vdc

Type AMI96: V = 31.6Vdc

Type AMI97: V = 31.6Vdc

AMlabVcSde-f. Valve Position Monitor.

Surface, Zone 2 gas, Ex nA mc IIC T5 Gc Ta = -18°C to 50°C; IP67

- a = Function: 33, 44, 92, 93, 94, 96, or 97
- b = Solenoid: 1B, 2B, 3B, 4B, 5B, 6B, 1D, 2D, 3D, 4D, 5D, 6D, 1E, 2E, 3E, 4E, 5E, 6E, 1H, 2H, 3H, 4H, 5H or 6H
- c = Junction: 02, 05, 10, 11, 13, 15, 17, 18, 19, 20 or 21
- d = Visual Indication: X, G, R, 1 or 2
- e = Branding: A or M
- f = Options: 1 – 5 alpha or numeric digits excluding “T” for special and marketing identification.

AMlabVcSde-f. Valve Position Monitor.

Surface, Zone 2 gas, Ex nA mc IIC T5 Gc Ta = -10°C to 60°C; IP67

- a = Function: 33, 44, 92, 93, 94, 96, or 97
- b = Solenoid: 1A, 2A, 3A, 4A, 5A or 6A
- c = Junction: 02, 05, 10, 11, 13, 15, 17, 18, 19, 20 or 21
- d = Visual Indication: X, G, R, 1 or 2
- e = Branding: A or M
- f = Options: 1 – 5 alpha or numeric digits excluding “T” for special and marketing identification

AMIA11VcSde-f. Valve Position Monitor.

Surface, Zone 2 gas, Ex nA mc IIC T5 Gc Ta = -40°C to 70°C; IP67

- a = Function: 33, 44, 92, 93, 94, 96, or 97
- c = Junction: 02, 05, 10, 11, 13, 15, 17, 18, 19, 20 or 21
- d = Visual Indication: X, G, R, 1 or 2
- e = Branding: A or M
- f = Options: 1 – 5 alpha or numeric digits excluding “T” for special and marketing identification.

AMlabVcSde-T. Valve Position Monitor.

II 3 G Ex nA mc IIC T5 Gc Ta = -40°C to 70°C; IP67

- a = Function: 33, 44, 92, 93, 94, 96, or 97
- b = Solenoid: 11, 1A, 2A, 3A, 4A, 5A, 6A, 1B, 2B, 3B, 4B, 5B, 6B, 1D, 2D, 3D, 4D, 5D, 6D, 1E, 2E, 3E, 4E, 5E, 6E, 1H, 2H, 3H, 4H, 5H or 6H
- c = Junction: 02, 05, 10, 11, 13, 15, 17, 18, 19, 20 or 21
- d = Visual Indication: X, G, R, 1 or 2
- e = Branding: A or M
- f = Options: 1 – 5 alpha or numeric digits including “T” for special and marketing identification.

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This report supersedes all previous documents bearing the reference no XPL/19063/17.1488.

## 2. INSTALLATION INSTRUCTIONS

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

#### 4. CONDITIONS OF CERTIFICATION

## 5. MARKING

IA Certificate No : S-XPL/17.1488 X

vii) If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd

*H. P. Van Gaden*

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