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E-mail: [admin-mgr@explolabs.co.za](mailto:admin-mgr@explolabs.co.za)**GOVERNMENT APPROVED TEST LABORATORY**

IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

**IA CERTIFICATE (IMPORT)**

Page 1 of 7

Date Issued: **23 Jun 2025**Certificate Validity: **23 Jun 2028**

**IA Certificate Validity:** In accordance with ARP 0108 and the National Code of Practice, import IA certificates has a validity period of three (3) years from the date of issue. The IA certificate's validity period depends on the validity of the international document that it is based upon, and it is invalidated should the international certificate be cancelled or the product quality assurance or notification becomes invalid. Equipment imported under a valid IA certificate and handed over to the end user, the IA Certificate validity falls away and the Ex equipment remains compliant with the relevant standards for its lifetime, provided the equipment is maintained in its original certified configuration. No modifications are allowed. Imported apparatus not sold by the IA certificate expiry date is deemed to not be covered by this IA Certificate and this IA Certificate shall undergo a renewal process. Renewal of this IA certificate is the responsibility of the IA Certificate Holder. The IA Certificate Holder must provide and maintain records to the end-user, of date of sale for traceability purposes.

Certificate Number:

**S-XPL/10.0898 X**Issue Number: **8**

Equipment:

**Valve Controller**

Model / Type:

**SG9.....E6./..., VG9.....E6./..., ND9.....E1./..., ND7.....E1, SG9.....E7./..., VG9.....E7./..., ND9.....E7./... and ND7.....E7**

IA Certificate Holder:

**Valmet South Africa (PTY) Ltd**

IA Certificate Holder Location:

**237 Albert Amon Road, Meadowdale, Germiston**

Manufacturer:

**Valmet Flow Control Oy**

Manufacturer Location:

**Vanha Porvoontie 229, Vantaa FI-01380, Finland**

Serial No:

All serial numbers, imported between issued- and validity date and all serial numbers covered by either valid QAN or QAR.

Identified by Inspection Authority Number

**S-XPL/10.0898 X**

And as described in the Explolabs file number **XPL/11512/10.0898 Issue 8** is hereby certified "Explosion Protected (Refer to clause 1, for Ex Rating)", having been examined and inspected in accordance with the relevant requirements of the South African National Standards.

**SANS 60079-0: 2012 Ed 5****IEC 60079-0: 2011 Ed 6**

Explosive atmospheres Part 0: Equipment — General requirements

**SANS 60079-1: 2009 Ed 4****IEC 60079-1: 2007 Ed 6**

Explosive atmospheres Part 1: Equipment protection by flameproof enclosures "d"

**SANS 60079-31: 2009 Ed 1****IEC 60079-31: 2008 Ed 1**

Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t"

Risk of ignition provided:

| Protection afforded | Equipment Protection Level (EPL) | Performance of protection                                                                                                     | Conditions of operation                          | T class or Max Surface Temp (°C) |
|---------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------|
|                     | Group                            |                                                                                                                               |                                                  |                                  |
| High                | Gb<br>Group II                   | Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account | Equipment remains functioning in zones 1 and 2   | T6 (85°C)...<br>T4 (135°C)       |
| High                | Db<br>Group III                  |                                                                                                                               | Equipment remains functioning in zones 21 and 22 | T80°C...<br>T105°C               |

This certificate supersedes all previous documents bearing the reference no XPL/11512/10.0898 Issue 7.

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1.

**GENERAL**

The marking of the Valve Controller shall include the following:

**Ex d IIC T6 ...T4 Gb**

**Ex tb III C T80°C...T105°C Db**

**The tables in the description show a complete list of all of the limit switch options and their associated temperature class, surface temperature for dust and ambient temperature ranges.**

The Valve Controllers of the Type SG9.....E6./..., VG9.....E6./..., ND9.....E1./..., ND7.....E1, SG9.....E7./..., VG9.....E7./..., ND9.....E7./... and ND7.....E7 are intended for controlling the diaphragm or the cylinder type pneumatic actuators of rotary or linear valves. Two enclosure models exist for the Valve Controller. The enclosure itself consists either of 3 screwed together parts (basic housing, limit switch housing and cover) or 2 screwed together parts (basic housing and cover). The cover is alternatively available with an inspection window. Threaded holes in the enclosure are intended for the connection of cable glands certified in the corresponding type of protection. The limit switch options included are shown in product type designation.

**Product Type Ref:**

AABCDDEFFG/HHH

**AA Product Group**

SG = SwitchGuard, intelligent on/off valve controller.

VG= ValvGuard, intelligent safety valve controller, SIL 3.

ND= Neles Digital, Intelligent Valve Controller.

**B Series code**

9 = Series 9000

7 = Series 7000

**C Enclosure**

2 = Aluminium IP66 enclosure.

3 = Stainless steel IP66 enclosure.

**DD Spool valve and connections**

12 = Restricted capacity (SG and VG variant).

15 = Standard capacity, stroke volume of actuator < 13 dm<sup>3</sup> (SG and VG variant). 35 = Standard capacity, stroke volume of actuator > 13 dm<sup>3</sup> (SG and VG variant). 37 = Extended capacity, for single acting actuators (SG and VG variant).

02 = Low Capacity (ND variant).

03 = Medium Capacity (ND variant). 06 = High capacity (ND variant).

**E Communication/ input signal range**

H = HART.

F = Foundation Fieldbus. P = Profibus PA

**FF Approvals**

E6 = (SG and VG variant) E1 = (ND variant).

E7 = identification plates in Russian language (SG, VG and ND variants).

**G Options for valve controller**

T = **VG9\_HE6T, SG9\_E6T and ND\_E1T**: internal 2-wire (passive) position transmitter. Analog position feedback signal, output 4-20 mA, supply voltage 12-30 V d.c., external load resistance 0-780 ohm.

**VG9\_HE6T**:  $U_i \leq 30$  V,  $I_i \leq 20$  mA,  $P_i \leq 1050$  mW, external load resistance 0-780 ohm.

**SG9\_E6T**:  $U_i = 30$  V,  $P_{max}$  = device limits itself, external load resistance 0-780 ohm.

**ND\_E1T**:  $U_i = 30$  V,  $P_{max}$  = device limits itself, external load resistance 0-780 ohm.

S = **VG9\_HE6S**: internal 2-wire (passive) position transmitter. Analog device status feedback signal, 4-20mA.

Output mA value is based on the device status. Supply voltage 12-30 V d.c., external load resistance 0-780 ohm.

**VG9\_HE6S**:  $U_i \leq 30$  V,  $I_i \leq 20$  mA,  $P_i \leq 1050$  mW, external load resistance 0-780 ohm.

C = Low temperature (-53°C) (ND variant).

J = External junction box, 2 pcs M20x1.5 conduit entry.

**SG9\_J**: Junction box for all 4-20 mA wirings, including position transmitter, if applicable. Junction box is attached to the enclosure, 2 pcs M20x1.5 conduit entry.

**VG9\_H\_J**: Junction box for all 4-20 mA wirings, including position transmitter, if applicable. Junction box is attached to the standard enclosure, 2 pcs M20x1.5 conduit entry.

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**VG9\_F\_J:** Junction box for FF and 24 VDC wiring. Junction box is attached to the standard enclosure.

**ND\_H\_J:** External junction box for all 4-20 mA wirings, including position transmitter, if applicable.

Junction box is attached to the enclosure, 2 pcs M20x1.5 conduit entry.

**ND\_F\_J, ND\_P\_J:** External junction box for wirings, including option for parallel connection of external surge protector. Junction box is attached to the enclosure, 2 pcs M20x1.5 conduit entry.

M = Special corrosion resistant finish. External aluminium surfaces protected by hard anodizing with PTFE.

L1 = Extension housing for PT (SG and VG variant).

L2 = Extension housing for LCP (VG variant).

L3 = Extension housing for LCP (VG variant).

Vxx = Branded for OEM distributors (V00...V099).

### HHH Options for valve controller (See table below)

| 2-wire, DC voltage proximity switches: |                                                                    |                 |                  |
|----------------------------------------|--------------------------------------------------------------------|-----------------|------------------|
| Limit switch code                      | Electric data                                                      | No. of switches | Ambient Range    |
| I02                                    | Ui: 16 V, li: 52 mA, Pi:169 mW                                     | 2               | See tables below |
| I03                                    | Ui: 16 V, li: 52 mA, Pi 169 mW                                     | 2               | See tables below |
| I04                                    | Ui: 16 V, li: 52 mA, Pi 169 mW                                     | 2               | See tables below |
| I09                                    | Ui: 16 V, li: 52 mA, Pi 169 mW                                     | 2               | See tables below |
| I54                                    | 12-24 V DC, < 100 mA                                               | 2               | See tables below |
| I56                                    | 10-36 V DC, < 150 mA                                               | 2               | See tables below |
| I57                                    | Ui: 16 V, li: 52 mA                                                | 2               | See tables below |
| I58                                    | Ui: 16 V, li: 52 mA                                                | 4               | See tables below |
| I41                                    | Ui: 16 V, li 52 mA                                                 | 4               | See tables below |
| 3-wire, DC voltage proximity switches: |                                                                    |                 |                  |
| Limit switch code                      | Electric data                                                      | No. of switches | Ambient Range    |
| I11                                    | 10-60 V DC, <: 200 mA                                              | 2               | See tables below |
| I21                                    | 10-60 V DC, < 200 mA                                               | 2               | See tables below |
| I45                                    | Ui: 16 V DC, li: 52 mA, Pi 169 mW                                  | 2               | See tables below |
| I59                                    | U: 10-30 V DC, I <sub>max</sub> : 200 mA                           | 2               | See tables below |
| I60                                    | U: 10-30 V DC, I <sub>max</sub> : 200 mA                           | 2               | See tables below |
| 2-wire, AC voltage proximity switches: |                                                                    |                 |                  |
| Limit switch code                      | Electric data                                                      | No. of switches | Ambient Range    |
| I32                                    | 24-240 V AC, < 200 mA                                              | 2               | See tables below |
| I34                                    | 24-240 V AC, < 200 mA                                              | 2               | See tables below |
| Stonel type proximity switches:        |                                                                    |                 |                  |
| Limit switch code                      | Electric data                                                      | No. of switches | Ambient Range    |
| D33                                    | 2 A - 8-125 V DC, 24-125 V AC                                      | 1               | See tables below |
| D44                                    | 3 mA; 1 mA, 6-29 V DC                                              | 1               | See tables below |
| DC/AC voltage micro switches:          |                                                                    |                 |                  |
| Limit switch code                      | Electric data                                                      | No. of switches | Ambient Range    |
| K05                                    | 3 A - 250 V AC, 0.4 A - 125 V DC, 5 A - 30 V DC                    | 2/4             | See tables below |
| K06                                    | 100 mA - 30 V DC / 125 V AC                                        | 2/4             | See tables below |
| K25                                    | 3 A - 250 V AC, 0.4 A - 125 V DC, 5 A - 30 V DC                    | 2               | See tables below |
| K26                                    | 100 mA - 30 V DC / 125 V AC                                        | 2               | See tables below |
| K45                                    | 3 A - 250 V AC, 0.4 A - 125 V DC, 5 A - 30 V DC                    | 4               | See tables below |
| K46                                    | 100 mA - 30 V DC / 125 V AC                                        | 4               | See tables below |
| B06                                    | BUS POWERED, NO EXTERNAL POWER NEEDED                              | 2               | See tables below |
| Reed type proximity switches:          |                                                                    |                 |                  |
| Limit switch code                      | Electrical data                                                    | No. of switches | Ambient Range    |
| R01                                    | 300 mA, 24 V DC; 200 mA, 125 V AC                                  | 2               | See tables below |
| R02                                    | 150 mA, 24 V DC                                                    | 2               | See tables below |
| R04                                    | V <sub>max</sub> 24VDC, I <sub>max</sub> 3A, W <sub>max</sub> 2.5W | 2               | See tables below |

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|                                          |                               |                 |                  |
|------------------------------------------|-------------------------------|-----------------|------------------|
| R35                                      | 4 A - 120 V AC, 3 A - 24 V DC | 2               | See tables below |
| Diagnostic signal position transmitters: |                               |                 |                  |
| Limit switch code                        | Electric data                 | No. of switches | Ambient Range    |
| T01                                      | Vmax: 40 V DC, I: 4-20 mA     | 2               | See tables below |

**Valve Controllers SG9000HE6**

| Variant type   | Ambient temperature ranges (Ta) according to type |                |                |
|----------------|---------------------------------------------------|----------------|----------------|
| SG9000         | T6 T80°C                                          | T5 T95°C       | T4 T105°C      |
| SG9abHE6c*     | -40°C ...+60°C                                    | -40°C ...+75°C | -40°C ...+85°C |
| SG9abHE6c/I02* |                                                   |                |                |
| SG9abHE6c/I04  |                                                   |                |                |
| SG9abHE6c/K25* |                                                   |                |                |
| SG9abHE6c/K26* |                                                   |                |                |
| SG9abHE6c/K45* |                                                   |                |                |
| SG9abHE6c/K46* |                                                   |                |                |
| SG9abHE6c/B06* |                                                   |                |                |
| SG9abHE6c/R35* |                                                   |                |                |
| SG9abHE6c/I32* |                                                   |                |                |
| SG9abHE6c/I41  |                                                   |                |                |
| SG9abHE6c/T01  |                                                   |                |                |
| SG9abHE6c/D33* | -40°C ...+60°C                                    | -40°C ...+75°C | -40°C ...+82°C |
| SG9abHE6c/D44* |                                                   |                |                |
| SG9abHE6c/R01* | -40°C ...+60°C                                    | -40°C ...+75°C | -40°C ...+80°C |
| SG9abHE6c/R02  |                                                   |                |                |
| SG9abHE6c/R04* |                                                   |                |                |
| SG9abHE6c/I59  | -40°C ...+60°C                                    | -40°C ...+60°C | -40°C ...+60°C |
| SG9abHE6c/I03  | -25°C ...+60°C                                    | -25°C ...+75°C | -25°C ...+85°C |
| SG9abHE6c/I09* |                                                   |                |                |
| SG9abHE6c/I45* |                                                   |                |                |
| SG9abHE6c/I57  |                                                   |                |                |
| SG9abHE6c/I58  |                                                   |                |                |
| SG9abHE6c/I56* | -25°C ...+60°C                                    | -25°C ...+75°C | -25°C ...+80°C |
| SG9abHE6c/I54  | -25°C ...+60°C                                    | -25°C ...+70°C | -25°C ...+70°C |
| SG9abHE6c/I11  |                                                   |                |                |
| SG9abHE6c/I21  |                                                   |                |                |
| SG9abHE6c/I34  |                                                   |                |                |
| SG9abHE6c/I60  |                                                   |                |                |

Type markings:

**a = Enclosure:**

2 (aluminum alloy), 3 (stainless steel)

**b = Spool valve size:**

12 (restricted), 15 (standard), 35 (high), 37 (extended)

**c = Options of valve****controller:**

none, T (position transmitter), J (external junction box), M (special corrosion resistant finish, external aluminium surfaces protected by hard anodizing with PTFE), Y (special construction to be specified).

\* Denotes that variant type is included in the manufacturer's instruction manual reference 7SG9H70en.

**Valve Controllers VG9000HE6, VG9000FE6**

| Variant type   | Ambient temperature ranges (Ta) according to type |                |                |
|----------------|---------------------------------------------------|----------------|----------------|
| VG9000         | T6 T80°C                                          | T5 T95°C       | T4 T105°C      |
| VG9abcE6d*     | -40°C ...+60°C                                    | -40°C ...+75°C | -40°C ...+85°C |
| VG9abcE6d/I02* |                                                   |                |                |
| VG9abcE6d/I04  |                                                   |                |                |
| VG9abcE6d/K25* |                                                   |                |                |
| VG9abcE6d/K26* |                                                   |                |                |
| VG9abcE6d/K45* |                                                   |                |                |
| VG9abcE6d/K46* |                                                   |                |                |
| VG9abcE6d/B06* |                                                   |                |                |
| VG9abcE6d/R35* |                                                   |                |                |
| VG9abcE6d/I32  |                                                   |                |                |
| VG9abcE6d/I41  |                                                   |                |                |
| VG9abcE6d/T01  |                                                   |                |                |
| VG9abcE6d/D33* | -40°C ...+60°C                                    | -40°C ...+75°C | -40°C ...+82°C |
| VG9abcE6d/D44* |                                                   |                |                |
| VG9abcE6d/R01* | -40°C ...+60°C                                    | -40°C ...+75°C | -40°C ...+80°C |
| VG9abcE6d/R02* |                                                   |                |                |
| VG9abcE6d/R04* |                                                   |                |                |
| VG9abcE6d/I59  | -40°C ...+60°C                                    | -40°C ...+60°C | -40°C ...+60°C |
| VG9abcE6d/I03  | -25°C ...+60°C                                    | -25°C ...+75°C | -25°C ...+85°C |
| VG9abcE6d/I09* |                                                   |                |                |
| VG9abcE6d/I45* |                                                   |                |                |
| VG9abcE6d/I57* |                                                   |                |                |

Type markings:

**a = Enclosure:**

2 (aluminum alloy), 3 (stainless steel)

**b = Spool valve size:**

12 (restricted), 15 (standard), 35 (high), 37 (extended)

**c = Communication:**

H (HART) or F (Foundation Fieldbus)

**d = Options of valve****controller:**

none, T or S (position transmitter or device status), J (external junction box), M (special corrosion resistant finish).

External aluminium surfaces protected by hard anodizing with PTFE, L1 (housing extension), L2 (housing extension), Y (special

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| Variant type   | Ambient temperature ranges (Ta) according to type |                |                |
|----------------|---------------------------------------------------|----------------|----------------|
| VG9000         | T6 T80°C                                          | T5 T95°C       | T4 T105°C      |
| VG9abcE6d/I58* |                                                   |                |                |
| VG9abcE6d/I56* | -25°C ...+60°C                                    | -25°C ...+75°C | -25°C ...+80°C |
| VG9abcE6d/I54  | -25°C ...+60°C                                    | -25°C ...+70°C | -25°C ...+70°C |
| VG9abcE6d/I11  |                                                   |                |                |
| VG9abcE6d/I21  |                                                   |                |                |
| VG9abcE6d/I34  |                                                   |                |                |
| VG9abcE6d/I60  |                                                   |                |                |

construction to be specified)

\* Denotes that variant type is included in the manufacturer's instruction manual references 7VG9H70en and 7VG9F70en.

**Valve Controllers ND9000HE1, ND9000FE1, ND9000PE1, ND7000HE1**

| Variant type      | Ambient temperature ranges (Ta) filled according to type |                |                |
|-------------------|----------------------------------------------------------|----------------|----------------|
| ND9000/ND7000     | T6 T80°C                                                 | T5 T95°C       | T4 T105°C      |
| NDabcdE1e*        | -40°C ...+60°C                                           | -40°C ...+75°C | -40°C ...+85°C |
| NDabcdE1e/I02*    |                                                          |                |                |
| NDabcdE1e/I04*    |                                                          |                |                |
| NDabcdE1e/K05*    |                                                          |                |                |
| NDabcdE1e/K06*    |                                                          |                |                |
| NDabcdE1e/B06*    |                                                          |                |                |
| NDabcdE1e/I32*    |                                                          |                |                |
| NDabcdE1e/R35*    |                                                          |                |                |
| NDabcdE1e/I41*    |                                                          |                |                |
| NDabcdE1e/T01     |                                                          |                |                |
| NDabcdE1e/D33*    | -40°C ...+60°C                                           | -40°C ...+75°C | -40°C ...+82°C |
| NDabcdE1e/D44*    |                                                          |                |                |
| NDabcdE1e/R01*    | -40°C ...+60°C                                           | -40°C ...+75°C | -40°C ...+80°C |
| NDabcdE1e/R02     |                                                          |                |                |
| NDabcdE1e/R04     |                                                          |                |                |
| NDabcdE1e/I59*    | -40°C ...+60°C                                           | -40°C ...+60°C | -40°C ...+60°C |
| NDabcdE1e/I03     | -25°C ...+60°C                                           | -25°C ...+75°C | -25°C ...+85°C |
| NDabcdE1e/I09*    |                                                          |                |                |
| NDabcdE1e/I45*    |                                                          |                |                |
| NDabcdE1e/I57*    |                                                          |                |                |
| NDabcdE1e/I58*    |                                                          |                |                |
| NDabcdE1e/I56*    | -25°C ...+60°C                                           | -25°C ...+75°C | -25°C ...+80°C |
| NDabcdE1e/I54     | -25°C ...+60°C                                           | -25°C ...+70°C | -25°C ...+70°C |
| NDabcdE1e/I11*    |                                                          |                |                |
| NDabcdE1e/I21*    |                                                          |                |                |
| NDabcdE1e/I34*    |                                                          |                |                |
| NDabcdE1e/I60*    |                                                          |                |                |
| NDabcdE1Ce***     | -53°C ...+60°C                                           | -53°C ...+75°C | -53°C ...+85°C |
| NDabcdE1Ce/I59*** | -53°C ...+60°C                                           | -53°C ...+60°C | -53°C ...+60°C |
| NDabcdE1Ce/I41*** | -50°C ...+60°C                                           | -50°C ...+75°C | -50°C ...+85°C |

Type markings:

**a = Diagnostics variant:**9 (intelligent Valve controller),  
7 (digital Valve controller)**b = Enclosure:**

20 (aluminum alloy), 30 (stainless steel)

**c = Spool valve size:**

2 (low), 3 (medium), 6 (high)

**d = Communication:**

H (HART) or F (Foundation Fieldbus) or P (Profibus PA)

**e = Options of valve controller:**none, T (position transmitter),  
J (external junction box),

M (special corrosion resistant finish. External aluminium surfaces

protected by hard anodizing with PTFE), G (exhaust adapter), Y

(special construction to be specified)

\* Denotes that variant type is included in the manufacturer's instruction manual reference 7ND9071en.

\*\* Not allowed with external junction box (J, -40 °C)

**Electrical data****Type VG9.....F..E6./...**

Safety signal (binary input)

Terminals 24 V d.c. +/-

Fieldbus

Terminals H1 +/-

Pnom

Unom ≤ 28 V d.c.

Pnom ≤ 1.0 W

Unom ≤ 32 V d.c.

Inom ≤ 380 mA

≤ 5320 mW

**Type VG9.....H..E6./...**

Input current circuit

Terminals +/-

Position encoder, optional

Terminals PT +/-

Pnom

Unom ≤ 30 V d.c.

Pnom ≤ 1080 mW

Unom ≤ 30 V d.c.

Inom ≤ 20 mA

≤ 1050 mW

**Type SG9.....H..E6./...**

Input current circuit

Terminals +/-

Unom ≤ 30 V d.c.

Pnom ≤ 1.0 W

**Type ND.....H..E1./...**

Input current circuit

Terminals +/-

Position encoder, optional

Terminals +/-

Pnom

Unom ≤ 30 V d.c.

Pnom ≤ 1.0 W

Unom ≤ 30 V d.c.

Inom ≤ 20 mA

≤ 1.0 W

**Type ND.....F..E1./...****Type ND.....P..E1./...**

Fieldbus Unom

Terminals H1 +/-

Pnom

≤ 32 V d.c.

Inom ≤ 380 mA

≤ 5320 mW

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Position encoder, optional       $U_{nom} \leq 30 \text{ V d.c.}$   
 Terminals +/-       $I_{nom} \leq 20 \text{ mA}$   
 Pnom       $\leq 1.0 \text{ W}$

**Conditions of Manufacture**

- i. When fitting a Certified Type NPS nipple to the assembly, as certified under IECEx CES 10.0003U, carbon steel versions shall not be used.
- ii. The equipment covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of the overall equipment.
- iii. The manufacturer shall take all reasonable steps to ensure compliance with the special conditions for certification associated with the equipment, in addition, the manufacturer shall provide the user/installer with an appropriate copy of the certificate for each certified device that is fitted, to also ensure they comply with any relevant special conditions for certification.
- iv. Each enclosure cover (with the exception of the blank (windowless) stainless steel version), shall be subjected to a routine overpressure test of at least 18.2 Bar for a period of at least 10 seconds, as required by clause 16.1 of IEC 60079-1. There shall be no permanent deformation or damage to the enclosure cover. **Note:** The enclosure housing and stainless steel cover are exempt from the above routine overpressure test.
- v. Elastomeric O-seals used with the equipment shall have a continuous operating temperature (COT) of at least  $-60^{\circ}\text{C}$  to  $+220^{\circ}\text{C}$ .
- vi. Model 2011 and Model 2012 IME Sealing Nipples shall only be used with Valve Controllers, which are limited to a maximum upper ambient temperature of  $+60^{\circ}\text{C}$ .
- vii. The full assembly is to have a maximum power draw of 2.5 W, except for models VG9....F.. which is to be limited to 3.5 W.

Based on the following documentation: IECEx SIR 11.0001X Issue No.: 16

**2. INSTALLATION INSTRUCTIONS**

It is the IA Certificate Holder's responsibility to supply OEM installation instructions with each unit offered for sale as required by IEC/SANS 60079-0, clause 30.

The equipment shall be installed, operated, and maintained in accordance with the manufacturer's instructions and the applicable South African standards and regulations.

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

- i. Some external parts of the system are non-conducting and may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user shall ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as highpressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done with a damp cloth.
- ii. When the equipment is installed in a dust explosive environment the user shall ensure that an accumulation of excessive dust layers on the enclosure is prevented.
- iii. The full assembly is to have a maximum power draw of less than 2.5 W.
- iv. Blanking elements shall not be used with an adapter.

**4. CONDITIONS OF CERTIFICATION**

This approval is granted based on the submitted documentation.

Any modifications or alterations to the equipment will invalidate this IA Certificate.

The Certificate Holder is responsible for maintaining accurate records of the equipment and this IA Certificate.

All production units must be covered by either a QAN (Quality Assurance Notification) or QAR (Quality Assurance Report).

**Renewal:** This IA certificate may be renewed under a valid Quality Assurance Notification (QAN) or Quality Assurance Report (QAR). Imported apparatus not sold by the IA certificate expiry date must undergo this renewal process. This condition remains the responsibility of the IA Certificate Holder.

This certificate supersedes all previous documents bearing the reference no XPL/11512/10.0898 Issue 7.

|                                                                                                                                                                |                          |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------|
| DOCUMENT No: XPL0213                                                                                                                                           | RELEASE DATE: 11/03/2025 | REV: 9 |
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Renewal of this IA certificate is the responsibility of the IA Certificate Holder.

Renewal involves a document review, including:

- Verification of the latest ATEX/IECEx certificate.
- Confirmation of a valid QAN/QAR.

Certificate holders are responsible for submitting these documents.

## 5. MARKING

The equipment shall bear the manufacturer's original marking plate containing all relevant Ex-certification details (applicable under the ATEX Directive). The following (or similar) information shall be clearly and permanently marked on all units:

IA Certificate Holder : Valmet South Africa (PTY) Ltd

Ex Rating : Ex d IIC T6 ...T4 Gb

Ex tb III C T80°C...T105°C Db

The tables in the description show a complete list of all of the limit switch options and their associated temperature class, surface temperature for dust and ambient temperature ranges.

IA Certificate No : S-XPL/10.0898 X

*This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided that the apparatus is used as relevant in accordance with:*

- ii) SANS 10086 and IEC/SANS 61241-14 requirements as applicable;
  - iii) Any conditions mentioned in the above report;
  - iv) Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and
  - v) Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety.
- vi) A revision certificate replaces all previous versions of the certificate.
- vii) \* - Only covers equipment Imported between the "Issued" and "Expire" dates.
- viii) If and when your QAN (Quality Assurance Notification) or QAR (Quality Assurance Report) 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 Certificate Holder's responsibility to always submit the updated and valid QAN/QAR certificate(s) to Explolabs (Pty) Ltd

Reviewed by:



**CC Lourens**

**Technical Specialist**

**EXPLOLABS EXPLOSION PREVENTION SERVICES**

*This report/certificate shall not be reproduced except in full without the written approval of the company Explolabs (Pty) Ltd shall not be liable for any losses or damages sustained on account of any failure or omission to properly perform our duties in terms of any contract undertaken by us. This disclaimer is immutable and automatically incorporated in any contract undertaken by us; notwithstanding anything to the contrary, save for the express written waiver of our managing director. By marking the equipment in accordance with the documentation/standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and tests have been successfully completed and that the product complies with the documentation and standard(s). The contents of electronic reports/certificates cannot be guaranteed. Original certification documents will be kept on file at Explolabs (Pty) Ltd*

This certificate supersedes all previous documents bearing the reference no XPL/11512/10.0898 Issue 7.

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