



Stainless Steel 'Smart' Valve Controller



Exi intrinsically safe

Valvescan VA CF8M (316) stainless steel ATEX/IECEX Certified Ex i valve controller is an integrated valve information device for Emergency Shutdown (ESD) valves. Combining valve position monitoring and partial stroke test (PST) or full stroke test (FST) functionality, the Type V unit is an information hub for the ESD valve, enabling plant operators to verify the capabilities of the most critical valves in their installations without having to significantly modify existing operating methodologies.



IP:66 / 67 CF8M (316) stainless steel enclosure for superior corrosion protection and mechanical resistive properties (Optional: CF3M (316L) stainless steel and coated anodised aluminium).

ATEX/IECEX Certified II 2 GD / Ex ib IIC T6..T4 & Ex ib IIIC T85°C.. T135°C for zone 1 & 2 hazardous areas.

Valve position via HART, an independent continuous feedback transmitter and/or discrete switches / sensors (mechanical or proximity).

Partial or full stroke test (PST / FST) functionality with local or remote initiation. HART enabled for configuration, test initiation and results analysis.

Up to 6 conduit entries for easy connection options.

Smart calibration allows easy installation and configuration.

Stored valve stroke profile (initial 'as new' signature and up to 50 signatures) allows a predictive maintenance regime to be implemented.

Low power and wiring requirements. Operates by de-energising an independent intrinsically safe solenoid to deliver PST / FST (functions with any suitable solenoid).

IEC 61508 / 61511 functional safety certified.

A screw-on cover ensures secure isolation of electrical components.

Compact design provides considerable space saving over similar equipment without compromising the ease of installation or maintenance.

High visibility red / green position indicator providing clear local indication of the current valve / actuator position (Optional: blue / white, red / yellow or navy / yellow colour combinations).

Quick and secure mounting to most types of pneumatic and hydraulic actuators.

Ex marking:

II 2 GD

Ex ib IIC T6..T4 Gb

Ex ib IIIC T85°C / T135°C Db

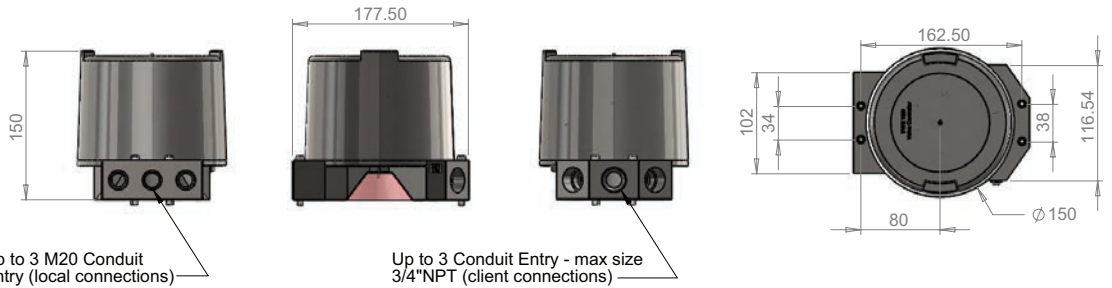
T_{amb} = -40°C to +60°C T6 / -40°C to +80°C T4

Notes:

- The input parameters markings for the intrinsically safe components shall be determined from their respective certificate numbers depending upon whether they are required for ATEX and/or IECEx.
- Care should be taken to ensure that the minimum and maximum temperature information on the intrinsically safe components used within the VA valve controller is observed and satisfies the Tamb parameters and the T-class for the VA units, respectively for ATEX/IECEX certificates as per relevance.
- The minimum ambient markings will depend on approved intrinsically safe components, if fitted, as will the parameters. Units will be marked accordingly at the point of manufacture in line with their individual intrinsically safe equipment approvals. However minimum permitted ambient in all cases is -40°C.

Certificate Number:
EMT19ATEX0027X
IECEX EMT 19.011X





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www.imtex-controls.com/va

Model Number Compilation (Drawing No. A190352-VA-IS) / Example:

Type Designator (see Note 1)	3rd Party Solenoid Certification	Control Board Certification Setup	Number of Electrical Function	Electrical Function (see Note 2)	Enclosure - Material of Construction
VA	I	I	2	17	S
Conduit Entry	Output Drive	Visual Indicator	Communication (see Note 3)	Power	Feature Designation
Y	S	R	2	L	100

Code	3rd Party Connected Solenoid Certification
I	Exi Intrinsically Safe
Control Board Certification Setup	
I	Exi Setup (No Pressure Transmitter)
Number of Additional Electrical Function Devices	
0	No Additional Function
1	One Additional Function
2	Two Additional Function
3	Three Additional Function (not Function 70)
4	Four Additional Function (not Function 70)
5	Five Additional Function (not Function 70)
6	Six Additional Function (not Function 70)
Additional Electrical Function	
01	Base Model Only (No Additional Switches/Sensors)
17	SPDT Gold Contact Mechanical Switch
25	SPDT Reed Proximity Switch
40	SPST / SPDT Reed Proximity Switch
42	V3 Style Namur Proximity Sensor
43	Non V3 Style Namur Proximity Sensor
70	Position Transmitter
Enclosure - Materials of Construction	
S	CF8M (316SS) Cover & Housing
L	CF3M (316L) Cover & Housing
9	High Pressure Die Cast Aluminium (Powder Coated) Cover & Housing
Conduit Entry	
Z	(6) M20 x 1.5
Y	(3) M25 x 1.5 & (3) M20 x 1.5
X	(2) M25 x 1.5 & (4) M20 x 1.5
W	(1) M25 x 1.5 & (5) M20 x 1.5
V	(6) 1/2" NPT
U	(3) 3/4" NPT & (3) 1/2" NPT
T	(2) 3/4" NPT & (4) 1/2" NPT
S	(1) 3/4" NPT & (5) 1/2" NPT
R	(5) M20 x 1.5 & (1) 1/2" NPT

Code	
Q	(3) M25 x 1.5, (2) M20 x 1.5 & (1) 1/2" NPT
P	(2) M25 x 1.5, (3) M20 x 1.5 & (1) 1/2" NPT
N	(1) M25 x 1.5, (4) M20 x 1.5 & (1) 1/2" NPT
M	(5) 1/2" NPT & (1) M20 x 1.5
L	(3) 3/4" NPT, (2) 1/2" NPT & (1) M20 x 1.5
K	(2) 3/4" NPT, (3) 1/2" NPT & (1) M20 x 1.5
J	(1) 3/4" NPT, (4) 1/2" NPT & (1) M20 x 1.5
Output Drive	
S	2-Pin Drive
N	Namur Drive
Visual Indicator (ABS Material)	
R	Red (Closed) / Green (Open)
B	Blue (Closed) / White (Open)
E	Red (Closed) / Yellow (Open)
Y	Navy (Closed) / Yellow (Open)
C	Continuous
O	No Visual Indicator
System Communication	
0	No Additional Communication (Local Operation Only)
2	
Control Board Power	
E	External 24VDC Power Supply (Exi Restrictions Apply)
L	Loop Powered on Board AO
Feature Designation	
- 1XX	Feature Designation Additional Items ATEX & IEXEx Dual Certified & Suitable for Gas & Dust (see Note 2)
- 3XX	Ex Feature Designation Additional Items ATEX Certified & Suitable for Gas & Dust (see Note 2)

NOTES

- The following letters should be applied to define the main control electronics board that is installed within the device: 'A' V-AID Monitor & Control Board (Exib option). Exi Details for Board - refer to Drg.A190372
- The exact detail of switches / sensors / transmitters fitted within the device is not fully specified by the part number. The 'feature designator' provides a mechanism for cross-referencing to a centralised log establishing the make and models of the additional parts fitted in a given unit. Dual Certified means the unit is covered by both ATEX & IECEx certification. For additional component characteristics, please refer to Drg.A190354.
- Communication relates to the way the installed unit operates with the client system and analytics application. For options available on each electronics board and certification variant, please consult Imtex Controls Ltd.