

Certificate of Compliance

Certificate: 70015745

Master Contract: 153857

Project: 70215797

Date Issued: 2019-06-27

Issued To: **Vega Grieshaber KG**
Am Hohenstein 113
Schiltach, Baden-Württemberg, 77761
Germany

Attention: Sebastian Schaller

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Issued by: *Bhas Nanavati*
Bhas Nanavati

PRODUCTS

Part A:

CLASS 2258-02 - PROCESS CONTROL EQUIPMENT – For Hazardous Locations

CLASS 2258-82 - PROCESS CONTROL EQUIPMENT – For Hazardous Locations – Certified to US Standards

Class I, Division 1, Groups C, and D T6...T1*; Type 4X, IP66/67; Dual Seal**

Ex d ia IIC T6...T1* Ga/Gb, Gb

Class I, Zone 0/1, 1, AEx d ia IIC T6...T1* Ga/Gb, Gb

T6...T1* = Refer to temperature values mentioned below.

VEGABAR *8*(*)CE/Z/Q/J, VEGABAR *8*(*)VE with integrated electronics Z (4 ... 20 mA), H (4 ... 20 mA/HART) or A (4 ... 20 mA/HART with SIL qualification), P (Profibus PA), F (Foundation Fieldbus) or S, T (differential pressure measurement). Enclosure types 4X, IP66, Rated 4-20 mA, up to 35 Vdc. Connections to the intrinsically safe circuits provided per the Control Drawing No. 50600 and 50743



Temperatures Code and Ambient Temperatures Range are as follows: **For use as Zone 0 and Zone 1, Division 1 installations**

Temperature Code / Class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 0)
T6	-50... +60°C	-20... +23°C
T5, T4, T3, T2, T1	-50... +60°C	-20... +60°C

Division 1, Zone 1 installation, VEGABAR 82, VEGABAR 83 with METEC measuring cell

Temperature Code / Class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 1)
T6	-50... +60°C	-50... +39°C
T5	-50... +60°C	-50... +100°C
T4	-50... +50°C	-50... +135°C
T3, T2, T1	-50... +50°C	-50... +200°C

Division 1, Zone 1 installation, VEGABAR 83 version with piezoresistive/strain gauge measuring cell, version without cooling element

Temperature Code / Class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 1)
T6	-50... +60°C	-50... +39°C
T5	-50... +60°C	-50... +85°C
T4	-50... +40°C	-50... +105°C
T3, T2, T1	-50... +30°C	-50... +120°C

Division 1, Zone 1 installation, VEGABAR 81, VEGABAR 83 version with piezoresistive/strain gauge measuring cell, version with cooling element

Temperature Code / Class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 1)
T6	-50... +60°C	-50... +39°C
T5	-50... +60°C	-50... +85°C
T4	-50... +50°C	-50... +120°C
T3, T2, T1	-50... +40°C	-50... +150°C

Notes:

1. * T6-T1 is based on maximum process temperatures identified in Control Drawing No. 50600 and 50743
2. ** Dual Seal is available only for Housing option type "D", and type "W"

a81(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: E, Z, J or Q
ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Isolating liquid/Process temperature: One digit variable for included isolating fluid, which represents type and temperature limits of the fluid.
h = Diaphragm material: One digit variable designating the material type of the diaphragm
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, A, P, F, S T
m = Supplementary Electronics: X, Z
n = Housing: A, V, D, W
o = Housing version/protection: I, A, S, K or L
p = Cable Entry/Connection: D, N, I, Q
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

a82(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
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ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Sealing concept: S, D or F
h = Measuring cell seal/Process temperature: One digit variable designating the measuring cell seal type and the allowed process temperature range
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, A, P, F, S T
m = Supplementary Electronics: X, Z
n = Housing: A, V, D, W

o = Housing version/protection: I, A, S, K or L
p = Cable Entry/Connection: D, N, I, Q
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
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a83(b).cdefghi(j)klmnopr

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d = Approval: E, Z, J or Q
ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Process temperature/Seal: S, 1, 3, P, 5, E, A, C, Q, F, N, H or T
h = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
i = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
j = Accuracy class: One digit variable designating the accuracy of the instrument
k = Electronics: Z, H, A, P, F, S T
l = Supplementary Electronics: X, Z
m = Housing: A, V, D, W
n = Housing version/protection: I, A, S, K or L
o = Cable Entry/Connection: D, N, I, Q
p = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
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a86(b).cdefghi(j)klmnoprs

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b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: E, Z, J or Q
e = Version/Process temperature: A, B, C or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
h = Transmitter options: One digit variable designating the transmitter type/material
i = Sealing concept/Measuring cell seal: A, D or J
j = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
k = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
l = Electronics: Z, H, A, P, F, S T

m = Supplementary Electronics: X, Z
n = Housing: A, V, D, W
o = Housing version/protection: I, A, S, K or L
p = Cable Entry/Connection: D, N, 1, Q
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

a87(b).cdefghi(jklmnoprs)

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b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: E, Z, J or Q
e = Version/Process temperature: B or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
h = Transmitter options: One digit variable designating the transmitter type/material
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j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
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m = Supplementary Electronics: X, Z
n = Housing: A, V, D, W
o = Housing version/protection: I, A, S, K or L
p = Cable Entry/Connection: D, N, 1, Q
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
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CLASS 2258-04 - PROCESS CONTROL EQUIPMENT – Intrinsicly Safe, Entity – For Hazardous Locations
CLASS 2258-84 - PROCESS CONTROL EQUIPMENT – Intrinsicly Safe, Entity – For Hazardous Locations
– Certified to US Standards

Class I, Division 1, Groups A, B, C, and D; Class II, Division 1, Groups E, F, and G; Class III; T6...T1*
Encl. Type 4X, IP66/67; Dual Seal**
Ex ia IIC T6...T1* Ga, Ga/Gb, Gb
Class I, Zone 0, 0/1, 1, AEx ia IIC T6....T1* Ga, Ga/Gb, Gb

T6...T1* = Refer to temperature values mentioned below.

Intrinsicly safe, with entity parameters, for use in Class I, II, III; Division 1; Groups A, B, C, D, E, F, G and Class I, Zone 0, Group IIC in accordance with manufacturer's Control Drawing No. 50609, 50726;

With integrated electronics Z (4 ... 20 mA), H (4 ... 20 mA/HART) or A (4 ... 20 mA/HART with SIL qualification)

Entity parameters: $U_i = 30V$, $I_i = 131 \text{ mA}$, $P_i = 983 \text{ mW}$

With integrated electronics P (Profibus PA), F (Foundation Fieldbus)

Maximum values: $U_i = 17.5 \text{ V}$, $I_i = 500 \text{ mA}$, $P_i = 5.5 \text{ W}$

or $U_i = 24 \text{ V}$, $I_i = 250 \text{ mA}$, $P_i = 1.2 \text{ W}$

Temperature Code and Ambient Temperature Range are as follows:

Class I, Zone 0 application

Temperature Code / Class	Ambient temperature on the sensor and electronics
T6	-20... +23°C
T5, T4, T3, T2, T1	-20... +60°C

Class I, Zone 0/ 1 application

Temperature Code / Class	Ambient temperature on the electronics	Product temperature on the sensor
T6	-50... +39°C	-20... +23°C
T5, T4, T3, T2, T1	-50... +70°C	-20... +60°C

Class I, II, III, Div 1 applications, Class I, Zone 1, applications:

VEGABAR 82, VEGABAR 83 with METEC measuring cell

Temperature class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 1)
T6	-50 ... +39 °C	-50 ... +39 °C
T5	-50 ... +70 °C	-50 ... +100 °C
T4	-50 ... +50 °C	-50 ... +135 °C
T3, T2, T1	-50 ... +50 °C	-50 ... +200 °C

Class I, II, III, Div 1 applications, Class I, Zone 1, applications:

VEGABAR 83 version with piezoresistive/strain gauge measuring cell, version without cooling element

Temperature class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 1)
T6	-50 ... +39 °C	-50 ... +39 °C
T5	-50 ... +70 °C	-50 ... +85 °C
T4	-50 ... +40 °C	-50 ... +105 °C
T3, T2, T1	-50 ... +30 °C	-50 ... +120 °C

Class I, II, III, Div 1 applications, Class I, Zone 1, applications:

VEGABAR 81, VEGABAR 83 version with piezoresistive/strain gauge measuring cell, version with cooling element

Temperature class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 1)
T6	-50 ... +39 °C	-50 ... +39 °C
T5	-50 ... +70 °C	-50 ... +85 °C
T4	-50 ... +50 °C	-50 ... +120 °C
T3, T2, T1	-50 ... +40 °C	-50 ... +150 °C

Notes:

1. * T6-T1 is based on maximum process temperatures identified in Control Drawing No. 50609
2. ** Dual Seal is available only for Housing option type "D", type "R", and type "W"

a81(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties

b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties

c = Scope: C, F or V

d = Approval: C, U, H, T or O

ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.

g = Isolating liquid/Process temperature: One digit variable for included isolating fluid, which represents type and temperature limits of the fluid.

h = Diaphragm material: One digit variable designating the material type of the diaphragm

i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, A, P, F, S or T
m = Supplementary Electronics: X-or Z
n = Housing: A, D, V, 8, or W
o = Housing version/protection: I, P, N, A, S, K, L or M
p = Cable Entry/Connection: M, S, T, K, U, V, L, O, D, 6, N, J, 8, P, C, B, I, F, G, H, W or Z
r= Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

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g= Sealing concept: S, D or F
h = Measuring cell seal/Process temperature: One digit variable designating the measuring cell seal type and the allowed process temperature range
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, A, P, F, S or T
m = Supplementary Electronics: X or Z
n = Housing: A, D, V, 8, or W
o = Housing version/protection: I, P, N, A, S, K, L or M
p = Cable Entry/Connection: M, S, T, K, U, V, L, O, D, 6, N, J, 8, P, C, B, I, F, G, H, W or Z
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

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c = Scope: C, F or V
d = Approval: C, U, H, T or O

ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.

g = Process temperature/Seal: S, 1, 3, P, 5, E, A, C, Q, F, N, H or T

h = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative

i = Measuring range: One digit variable designating the allowable measurement range of the pressure cell

j = Accuracy class: One digit variable designating the accuracy of the instrument

k = Electronics: Z, H, A, P, F, S or T

l = Supplementary Electronics: X or Z

m = Housing: A, D, V, 8, or W

n = Housing version/protection: I, P, N, A, S, K, L or M

o = Cable Entry/Connection: M, S, T, K, U, V, L, O, D, 6, N, J, 8, P, C, B, I, F, G, H, W or Z

p = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L or X

r = Additional certificates: One digit variable designating any type of test certificate required by the customer

a86(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties

b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties

c = Scope: C, F or V

d = Approval: C, U, H, T or O

e = Version/Process temperature: A, B, C or D

fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.

h = Transmitter options: One digit variable designating the transmitter type/material

i = Sealing concept/Measuring cell seal: A, D or J

j = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative

k = Measuring range: One digit variable designating the allowable measurement range of the pressure cell

l = Electronics: Z, H, A, P, F, S or T

m = Supplementary Electronics: X or Z

n = Housing: A, D, V, 8, or W

o = Housing version/protection: I, P, N, A, S, K, L or T

p = Cable Entry/Connection: M, S, T, K, U, V, L, O, D, 6, N, J, 8, P, C, B, I, F, G, H, W or Z

r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X

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a87(b).cdefghi(j)klmnoprs

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b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties

c = Scope: C, F or V
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e = Version/Process temperature: B or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
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i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
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k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, A, P, F, S or T
m = Supplementary Electronics: X or Z
n = Housing: A, D, V, 8, or W
o = Housing version/protection: I, P, N, A, S, K, L or T
p = Cable Entry/Connection: M, S, T, K, U, V, L, O, D, 6, N, J, 8, P, C, B, I, F, G, H, W or Z
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

Class I Division 1 Group A, B, C and D T6...T1*; Type 4X IP66/67; Dual Seal**

Ex d ia IIC T6...T1* Ga/Gb, Gb

Class I, Zone 0/1, 1, AEx d ia IIC T6...T1* Ga/Gb, Gb

T6...T1* = Refer to temperature values mentioned below.

Explosion-proof providing entity parameters to external field device per the Control Drawing No. 50613:

Electrical ratings:

With integrated electronics Z (4 ... 20 mA), H (4 ... 20 mA/HART): U = 15 ... 35 V AC

With integrated electronics U (Modbus): U = 8 ... 34 V DC

Temperature Code and Ambient Temperature Range are as follows:

With integrated electronics Z (4 ... 20 mA), H (4 ... 20 mA/HART) or U (Modbus)

Installation at the separation between Zone 0 and Zone 1, Division 1 installations

Temperature Code	Ambient temperature (electronics, zone 1)		Product temperature range (measuring sensor, zone 0)
	VEGABAR *8* with electronics Z, H	VEGABAR *8* with electronics U	
T6	-50 ... +46 °C	-40 ... +46 °C	-20 ... +23 °C
T5, T4, T3, T2, T1	-50 ... +60 °C	-40 ... +60 °C	-20 ... +60 °C

Div 1, Zone 1 installation, VEGABAR 82, VEGABAR 83 version with METEC measuring cell

Temperature Code	Ambient temperature (electronics, zone 1)		Product temperature range (measuring sensor, zone 1)
	VEGABAR *8* with electronics Z, H	VEGABAR *8* with electronics U	
T6	-50 ... +46 °C	-40 ... +46 °C	-50 ... +39 °C
T5	-50 ... +60 °C	-40 ... +60 °C	-50 ... +100 °C
T4	-50 ... +50 °C	-40 ... +50 °C	-50 ... +135 °C
T3, T2, T1	-50 ... +50 °C	-40 ... +50 °C	-50 ... +200 °C

Div 1, Zone 1 installation, VEGABAR 83 version with piezoresistive/strain gauge measuring cell, version without cooling element

Temperature Code	Ambient temperature (electronics, zone 1)		Product temperature range (measuring sensor, zone 1)
	VEGABAR *8* with electronics Z, H	VEGABAR *8* with electronics U	
T6	-50 ... +46 °C	-40 ... +46 °C	-50 ... +39 °C
T5	-50 ... +60 °C	-40 ... +60 °C	-50 ... +85 °C
T4	-50 ... +40 °C	-40 ... +40 °C	-50 ... +105 °C
T3, T2, T1	-50 ... +30 °C	-40 ... +30 °C	-50 ... +120 °C

Div 1, Zone 1 installation, VEGABAR 81, VEGABAR 83 version with piezoresistive/strain gauge measuring cell, version with cooling element

Temperature class	Ambient temperature (electronics, zone 1)		Product temperature range (measuring sensor, zone 1)
	VEGABAR *8* with electronics Z, H	VEGABAR *8* with electronics U	
T6	-50 ... +46 °C	-40 ... +46 °C	-50 ... +39 °C
T5	-50 ... +60 °C	-40 ... +60 °C	-50 ... +85 °C
T4	-50 ... +50 °C	-40 ... +50 °C	-50 ... +120 °C
T3, T2, T1	-50 ... +40 °C	-40 ... +40 °C	-50 ... +150 °C

Notes:

1. * T6-T1 is based on maximum process temperatures identified in Control Drawing No. 50613
2. ** Dual Seal is available only for Housing option type "D", and type "W"

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b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: D, V, P or I
ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Isolating liquid/Process temperature: One digit variable for included isolating fluid, which represents type and temperature limits of the fluid.
h = Diaphragm material: One digit variable designating the material type of the diaphragm
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
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k = Accuracy class: One digit variable designating the accuracy of the instrument
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m = Supplementary Electronics: X
n = Housing: D or W

o = Housing version/protection: I, A, S, K or L
p = Cable Entry/Connection: D, N, I, Q
r = Indicating/Adjustment Module PLICSCOM: A, B F, K, L or X
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d = Approval: D, V, P or I
ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Process temperature/Seal: S, 1, 3, P, 5, E, A, C, Q, F, N, H or T
h = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
i = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
j = Accuracy class: One digit variable designating the accuracy of the instrument
k = Electronics: Z, H, U
l = Supplementary Electronics: X
m = Housing: D, or W
n = Housing version/protection: I, A, S, K or L
o = Cable Entry/Connection: D, N, I, Q
p = Indicating/Adjustment Module PLICSCOM: A, B F, K, L or X
r = Additional certificates: One digit variable designating any type of test certificate required by the customer

a86(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: D, V, P or I
e = Version/Process temperature: A, B, C or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
h = Transmitter options: One digit variable designating the transmitter type/material
i = Sealing concept/Measuring cell seal: A, D or J
j = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
k = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
l = Electronics: Z, H, U

m = Supplementary Electronics: X
n = Housing: D or W
o = Housing version/protection: I, A, S, K or L
p = Cable Entry/Connection: D, N, I, Q
r = Indicating/Adjustment Module A, B, F, K, L or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

a87(b).cdefghi(jklmnoprs

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b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: D, V, P or I
e = Version/Process temperature: B or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
h = Transmitter options: One digit variable designating the transmitter type/material
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
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l = Electronics: Z, H, U
m = Supplementary Electronics: X
n = Housing: D or W
o = Housing version/protection: I, A, S, K or L
p = Cable Entry/Connection: D, N, I, Q
r = Indicating/Adjustment Module A, B, F, K, L or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

Part B:

CLASS 2258-03 - PROCESS CONTROL EQUIPMENT – Intrinsically Safe and Non Incendive Systems – For Hazardous Locations

CLASS 2258-83 - PROCESS CONTROL EQUIPMENT – Intrinsically Safe and Non Incendive Systems – For Hazardous Locations – Certified to US Standards

Class II, Division 1, Groups E, F and G; Class III; TX°C*; Type 4X IP66/67;

Ex ia ta IIIC TX°C* Da

Ex ia tb IIIC TX°C* Db

Ex ia/tb IIIC TX°C* Da/Db

Ex ia/tc IIIC TX°C* Da/Dc

Zone 20 AEx ia ta IIIC TX°C* Da

Zone 21 AEx ia tb IIIC TX°C* Db

Zone 20/21 AEx ia/tb IIIC TX°C* Da/Db

Zone 20/22 AEx ia/tc IIIC TX°C* Da/Dc

Dust ignition-proof providing entity parameters to external field device per the Control Drawing No. 52267:

Electrical ratings:

With integrated electronics Z (4 ... 20 mA), H (4 ... 20 mA/HART), A (4 ... 20 mA/HART with SIL qualification), or U (Modbus): U = 9.6 ... 30 V DC

With integrated electronics P (Profibus), or F (Foundation Fieldbus): U = 9.6 ... 32 V DC

Ambient Temperature Range -40 ... +60 °C

Notes:

1. * TX°C is based on maximum process temperatures identified in Control Drawing No. 52267

a&I(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties

b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties

c = Scope: C or V

d = Approval: R, H, I, or J

ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.

g = Isolating liquid/Process temperature: One digit variable for included isolating fluid, which represents type and temperature limits of the fluid.

h = Diaphragm material: One digit variable designating the material type of the diaphragm
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, U, A, S, T, P, or F
m = Supplementary Electronics: X or Z
n = Housing: A, D, V or W
o = Housing version/protection: I or N
p = Cable Entry/Connection: D, N, I, Q
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

Notes:

1. Approval I only applicable with electronics Z, H, or U
2. Electronics U is only applicable with approval I or R

a82(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C or V
d = Approval: R, H, I, or J
ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Sealing concept: S, D or F
h = Measuring cell seal/Process temperature: One digit variable designating the measuring cell seal type and the allowed process temperature range
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, U, A, S, T, P, or F
m = Supplementary Electronics: X or Z
n = Housing: A, D, V or W
o = Housing version/protection: I or N
p = Cable Entry/Connection: D, N, I, Q
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

Notes:

1. Approval I only applicable with electronics Z, H, or U
2. Electronics U is only applicable with approval I or R

a83(b).cdefghi(j)klmnopr

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
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ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Process temperature/Seal: S, 1, 3, P, 5, E, A, C, Q, F, N, H or T
h = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
i = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
j = Accuracy class: One digit variable designating the accuracy of the instrument
k = Electronics: Z, H, U, A, S, T, P, or F
l = Supplementary Electronics: X or Z
m = Housing: A, D, V or W
n = Housing version/protection: I or N
o = Cable Entry/Connection: D, N, 1, Q
p = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L or X
r = Additional certificates: One digit variable designating any type of test certificate required by the customer

Notes:

1. Approval I only applicable with electronics Z, H, or U
2. Electronics U is only applicable with approval I or R

a86(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
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c = Scope: C or V
d = Approval: R, H, I, or J
e = Version/Process temperature: A, B, C or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
h = Transmitter options: One digit variable designating the transmitter type/material
i = Sealing concept/Measuring cell seal: A, D or J
j = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
k = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
l = Electronics: Z, H, U, A, S, T, P, or F
m = Supplementary Electronics: X or Z

n = Housing: A, D, V or W
o = Housing version/protection: I or N
p = Cable Entry/Connection: D, N, I, Q
r = Indicating/Adjustment Module A, B, F, K, L or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

Notes:

1. Approval I only applicable with electronics Z, H, or U
2. Electronics U is only applicable with approval I or R

a87(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
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c = Scope: C or V
d = Approval: R, H, I, or J
e = Version/Process temperature: B or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
h = Transmitter options: One digit variable designating the transmitter type/material
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, U, A, S, T, P, or F
m = Supplementary Electronics: X or Z
n = Housing: A, D, V or W
o = Housing version/protection: I or N
p = Cable Entry/Connection: D, N, I, Q
r = Indicating/Adjustment Module A, B, F, K, L or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

Notes:

1. Approval I only applicable with electronics Z, H, or U
2. Electronics U is only applicable with approval I or R

Ex ia/tb ia IIIC TX°C* Da/Db
Zone 20/21 AEx ia/tb ia IIIC TX°C* Da/Db

a81(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties

b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties

c = Scope: C or V

d = Approval: T or S

ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.

g = Isolating liquid/Process temperature: One digit variable for included isolating fluid, which represents type and temperature limits of the fluid.

h = Diaphragm material: One digit variable designating the material type of the diaphragm

i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative

j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell

k = Accuracy class: One digit variable designating the accuracy of the instrument

l = Electronics: Z, H, U, A, S, T, P, or F

m = Supplementary Electronics: X or Z

n = Housing: A, D, V or W

o = Housing version/protection: I or N

p = Cable Entry/Connection: D, N, I, Q

r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L or X

s = Additional certificates: One digit variable designating any type of test certificate required by the customer

Notes:

1. Electronics U is only applicable with approval S

a82(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties

b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties

c = Scope: C or V

d = Approval: T or S

ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.

g = Sealing concept: S, D or F

h = Measuring cell seal/Process temperature: One digit variable designating the measuring cell seal type and the allowed process temperature range

i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative

j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell

k = Accuracy class: One digit variable designating the accuracy of the instrument

l = Electronics: Z, H, U, A, S, T, P, or F

m = Supplementary Electronics: X or Z

n = Housing: A, D, V or W

o = Housing version/protection: I or N

p = Cable Entry/Connection: D, N, I, Q
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

Notes:

1. Electronics U is only applicable with approval S

a83(b).cdefghi(j)klmnopr

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
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g = Process temperature/Seal: S, 1, 3, P, 5, E, A, C, Q, F, N, H or T
h = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
i = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
j = Accuracy class: One digit variable designating the accuracy of the instrument
k = Electronics: Z, H, U, A, S, T, P, or F
l = Supplementary Electronics: X or Z
m = Housing: A, D, V or W
n = Housing version/protection: I or N
o = Cable Entry/Connection: D, N, I, Q
p = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
r = Additional certificates: One digit variable designating any type of test certificate required by the customer

Notes:

1. Electronics U is only applicable with approval S

a86(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
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c = Scope: C or V
d = Approval: T or S
e = Version/Process temperature: A, B, C or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.

h = Transmitter options: One digit variable designating the transmitter type/material
i = Sealing concept/Measuring cell seal: A, D or J
j = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
k = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
l = Electronics: Z, H, U, A, S, T, P, or F
m = Supplementary Electronics: X or Z
n = Housing: A, D, V or W
o = Housing version/protection: I or N
p = Cable Entry/Connection: D, N, I, Q
r = Indicating/Adjustment Module A, B, F, K, L, or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

Notes:

1. Electronics U is only applicable with approval S

a87(b).cdefghi(j)klmnoprs

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b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C or V
d = Approval: T or S
e = Version/Process temperature: B or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
h = Transmitter options: One digit variable designating the transmitter type/material
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k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, U, A, S, T, P, or F
m = Supplementary Electronics: X or Z
n = Housing: A, D, V or W
o = Housing version/protection: I or N
p = Cable Entry/Connection: D, N, I, Q
r = Indicating/Adjustment Module A, B, F, K, L, or X
s = Additional certificates: One digit variable designating any type of test certificate required by the customer

Notes:

Electronics U is only applicable with approval S

APPLICABLE REQUIREMENTS

Part A:

CSA Std C22.2 No. 0-10	General Requirements – Canadian Electrical Code, Part II
CAN/CSA-C22.2 No. 61010-1-12	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
CSA C22.2 No. 25: 1996 (R 2004)	Enclosures for Use in Class II Groups E, F and G Hazardous Locations
CSA C22.2 No. 30: 1988 (R 2003)	Explosion-Proof Enclosures For Use In Class I Hazardous Locations
CSA C22.2 No. 157: 1992 (R 2006)	Intrinsically Safe and nonincendive Equipment for Use in Hazardous Locations
CSA C22.2 No. 0.4: 1982 (R 2006)	Bonding and Grounding of Electrical Equipment
CSA C22.2 No. 0.5: 1982 (R 2003)	Threaded Conduit Entries
CSA C22.2 No. 94: 1991 (R 2006)	Special Purpose Enclosures
CAN/CSA Std. C22.2 No. 60079-0:12	Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements
CAN/CSA Std. C22.2 No. 60079-11:12	Electrical apparatus for explosive gas atmospheres - Part 11: intrinsic safety “i”
CAN/CSA Std. C22.2 No. 60079-1:12	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof Enclosure “d”
CAN/CSA-C22.2 No. 60079-26: 16	Explosive atmosphere – Part 26: Equipment with Equipment Protection Level (EPL) Ga (IEC 60079-26:2014, MOD)
CAN/CSA-C22.2 No. 60529:05	Degrees of protection provided by enclosures (IP Code).
IEC 60079-27: 2005	Electrical apparatus for explosive gas atmosphere Part27: Fieldbus intrinsically safe concept (FISCO) and Fieldbus non-incendive concept (FNICO) – Edition 1 (used as a guide)
UL Std. No. 61010-1 (3 rd Edition)	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
UL Std. No. 913 (4th Ed.)	Intrinsically Safe and Associated Apparatus For Use In Class I, II, and III, Division 1, Hazardous (Classified)
UL Std. No. 50 (Edition 10)	Enclosures for Electrical Equipment
UL Std. No. 1203, Ed 4 (2006)	Explosion-Proof and Dust-Ignition-Proof Class I, II, and III, Division 1, Hazardous (Classified)
UL 60079-0 (6th Edition 2013)	Explosive Atmospheres – Part 0: Equipment – General Requirements
UL 60079-1 (7th Edition 2013)	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”

UL 60079-11 (6th Edition 2013)

Explosive Atmospheres – Part 11: Equipment protection by Intrinsic safety „i“

UL 60079-26 (3rd Edition 2017)

Explosive Atmosphere – Part 26: Equipment with Equipment Protection Level (EPL) Ga

Part B:

CSA Std C22.2 No. 0-10

General Requirements – Canadian Electrical Code, Part II

CAN/CSA-C22.2 No. 61010-1-12

Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements

CSA C22.2 No. 25: 1996 (R 2004)

Enclosures for Use in Class II Groups E, F and G Hazardous Locations

CSA C22.2 No. 94: 1991 (R 2006)

Special Purpose Enclosures

CAN/CSA Std. C22.2 No. 60079-0:15

Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements

CAN/CSA Std. C22.2 No. 60079-11:14

Electrical apparatus for explosive gas atmospheres - Part 11: intrinsic safety “i”

CAN/CSA Std. C22.2 No. 60079-31:15

Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure “t”

FM 3600 (2011)

Approval Standard for Electrical Equipment for Use in Hazardous Locations – General Requirements

FM 3616 (2011)

Approval Standard for Dust-Ignitionproof Electrical Equipment General Requirements

CAN/CSA-C22.2 No. 60529:05

Degrees of protection provided by enclosures (IP Code).

UL Std. No. 61010-1 (3rd Edition)

Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements

UL Std. No. 50 (Edition 10)

Enclosures for Electrical Equipment

UL 60079-0 (6th Edition 2013)

Explosive Atmospheres – Part 0: Equipment – General Requirements

UL 60079-11 (6th Edition 2013)

Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”

UL 60079-31 (2nd Edition 2015)

Explosive atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure “t”

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only

- Submitter's identification;
- Model designation or equivalent;
- Complete electrical ratings (included in the Safety instructions);
- Temperature code;
- Maximum Working Pressure;
- Enclosure Type 4X and IP66;
- Maximum ambient temperature as appropriate (included in the Safety instructions);
- Entity parameters (For Class I, Division 1 product) (included in the Safety instructions);
- Applicable hazardous locations designation;
- FISCO field device markings
- CSA Certificate Number: CSA 15.70015745X
- Date code or equivalent;
- "WARNING - DO NOT OPEN WHEN AN EXPLOSIVE GAS ATMOSPHERE IS PRESENT or OPEN CIRCUIT BEFORE REMOVING COVER or KEEP COVERS TIGHT WHILE CIRCUITS ARE ALIVE"
- Caution re Electrostatic Charge.

REQUIRED METHOD OF MARKING

The marking shall be permanent, such as a 0.5 mm thick metal nameplate secured by drive pins or screws in bottomed holes, cast, etched or engraved, or CSA Accepted adhesive nameplates

Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".

Supplement to Certificate of Compliance

Certificate: 70015745

Master Contract: 153857

*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
70215797	2019-06-27	Update of CSA Certificate and Descriptive Report 70015745 for HAZLOC certification of VEGABAR8x for North America. Addition of PLICSCOM3 assessed under Custom Testing Service Test Report No. 153857-70160903 to the CSA Test Report 70015745. Thermal data adjustments to accommodate PLICSCOM3 temperature rise. Deletion of plastic housing from the model code.
70084309	2016-06-15	Update to Report 70015745 to add dust ignition method of protection, drawings and additional approvals per VEGA's nomenclature. This is to fulfill the requirements of project 70038891 which was created under a Master Contract number which is no longer active.
70015745	2015-04-10	Original VEGABAR 80 series certification.

