



Certificate of Compliance

Certificate:	1552597	Master Contract:	168668
Project:	80282354	Date Issued:	2026-03-20
Issued to:	Valmet Flow Control Oy Vanha Porvoontie 229 Vantaa, Uusimaa 01380 Finland	Issued by:	<i>John Kusi Amoateng</i> John Kusi Amoateng

Attention: Jari Lepisto

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.



PRODUCTS

Class 2258 02 PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class 2258 04 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

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

Class 2258 84 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations - Certified to US Standards

CLASS 2258 04 PROCESS CONTROL EQUIPMENT – Intrinsically Safe, Entity – For Hazardous Locations

Class I, Division 1, Groups A, B, C, and D; T4/T5/T6

Ex ia IIC T4/T5/T6 Ga

- Valve Controller, series abcdHfgh and SG9cdHfgh; input rated max. 28 Vdc, 4 - 20 mA; with entity parameters: $U_i (V_{max}) = 28 \text{ V}$,



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Ii (Imax) = 120 mA, Pi = 1.0 W, Ci = 22 nF, Li = 53 μ H; optional output rated max. 28 Vdc, 4 - 20 mA; with entity parameters: Ui (Vmax) = 28 V, Ii (Imax) = 120 mA, Pi = 1.0 W, Ci = 22 nF, Li = 53 μ H; intrinsically safe when connected in accordance with Installation Drawing ND9000 Control Wiring (F71819). Enclosure Type 4X, IP66. Output values for remote position sensor (option “R”) for ND91xxH version with entity parameters: Uo(Voc) = 3.53V, Io(Isc) = 12.6mA, Po = 11.1 mW, Co(Ca) = 10nF, Lo(La) = 10 μ H.

- Valve Controller, series abcdFfgh or abcdPfgh, input rated max. 24 Vdc; in accordance with the FISCO Model according to IEC 60079-27, with entity parameters: Ui = 24 V, Ii = 380 mA, Pi = 5.32 W, Ci = 5 nF, Li = 10 μ H; intrinsically safe when connected in accordance with Installation Drawing ND9000 Control Wiring (F71819). Enclosure Type 4X, IP66. Output values for remote position sensor (option “R”) for ND91xxF and ND91xxP version with entity parameters Uo(Voc) = 5.0V, Io(Isc) = 17.8mA, Po = 22.2mW, Co(Ca) = 10nF, Lo(La) = 10 μ H.

Class I, Division 2, Groups A, B, C, and D; T4/T5/T6

Ex ic IIC T4/T5/T6 Gc

- Valve Controller, series abcdFfgh or abcdPfgh; input rated max. 32 Vdc; with entity parameters Ui = 32 Vdc, Ii = 380 mA, Pi = 5.32 W, Ci = 5 nF, Li = 10 μ H in accordance with the “FISCO Model Ex ic”. Intrinsically safe when connected in accordance with Installation Drawing ND9000 Control Wiring (F71819). Enclosure Type 4X, IP66. Output values for remote position sensor (option “R”) is available only for ND91xx version with entity parameters: Uo(Voc) = 3.53V, Io(Isc) = 12.6mA, Po = 11.1 mW, Co(Ca) = 10nF, Lo(La) = 10 μ H. Output values for remote position sensor (option “R”) for ND91xxF and ND91xxP version with entity parameters Uo(Voc) = 5.0V, Io(Isc) = 17.8mA, Po = 22.2mW, Co(Ca) = 10nF, Lo(La) = 10 μ H.

Ambient temperature range (“standard model”):

-40°C ≤ Ta ≤ +50°C for temperature class T6
-40°C ≤ Ta ≤ +65°C for temperature class T5
-40°C ≤ Ta ≤ +80°C for temperature class T4

For Cold version:

Ambient temperature range (“cold variant”):

-55°C ≤ Ta ≤ +50°C for temperature class T6
-55°C ≤ Ta ≤ +65°C for temperature class T5
-55°C ≤ Ta ≤ +80°C for temperature class T4

Supply pressure: 1.4 – 8 bar / 20 – 115 psi

Notes:

-If limit switches 109, 145, 157, 158 and 160 are used, the temperature rating marked on the identification plate attached to the product is to be adjusted accordingly.
-The limit switches will be supplied using safety barriers as per Installation Drawing ND9000 Control Wiring (F71819) or Drawing SG9000 Control Wiring (F86284).

Model **abcde fgh**, the following Model Code breakdown applies:

Where:

a = Marketing brand name
 ND Neles
 SD StoneL

b = Diagnostics variant



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- 7 Digital Valve Controller
- 9 Intelligent Valve Controller

c = Enclosure

- 1. Standard IP66 / Type 4X enclosure
- 2. Aluminum flameproof (Ex d) IP66/Type 4X Enclosure
- 3. Stainless steel flameproof (Ex d) IP66 / Type 4X enclosure
- 4. Standard enclosure with stainless steel bottom

d = Spool valve size

- 02 Low capacity
- 03 Medium capacity
- 06 High capacity

e = Communication / input

- H HART communication, 4-20 mA current signal
- F Foundation Fieldbus (according to FISCO, if intrinsically safe,)
- P Profibus-PA (according to FISCO, if intrinsically safe,)

f = Approvals

- U1 IS Class I, Division 1: Groups A, B, C, D; T4/T5/T6; IS Class I, Zone 0: Ex/AEx ia IIC; T4/T5/T6
- U2 NI Class I, Division 2: Groups A, B, C, D; T4/T5/T6; NI Class I, Zone 2: Ex/AEx nA IIC; T4/T5/T6
- U Both U1 and U2

g = Options of valve controller

- None
- T Internal, 2 wire 4-20 mA (passive) position transmitter (.D9...H... only)
- G Exhaust adapter
- C Cold (-55°C) variant
- R Remote position sensor (only available for ND91xx)
- P Partial Stroke Test
- V01-99 Branded Models
- Y Special Construction - shall not affect hazardous area approvals

h = Limit switch type (according to F41446 and 41476)

- None
- D44 Neles; Namur sensor dual module, 6 – 29 Vdc, > 3 mA; < 1 mA. Temperature range -40 to +82°C / -40 to +179°F
- I02 P+F; NJ2-12GK-SN, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -40 to +85°C / -40 to +185°F
- I09 P+F; NCB2-12GM35-N0, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -25 to +85°C / -13 to +185°F
- I45 P+F; NJ3-18GK-S1N, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NO. Temperature range -25 to +85°C / -13 to +185°F
- I41 P+F; NJ4-12GK-SN, 4 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8V, NAMUR NC. Temperature range -50 to +100°C / -58 to +212°F
- I57 P+F; NJ2-V3-N, 2 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8.2V, NAMUR NC. Temperature range -25 to +100°C / -13 to +212°F
- I58 P+F; NJ2-V3-N, 4 pieces
- I60 P+F; NCB2-12GM40-E2-3G-3D, 2 pieces, 2-wire type, 1..200mA, 10..30Vdc, PNP NO, Temperature range -25 to



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+70°C / -13 to +158°F

B06 OMRON D2VW-01L2A-1MS. Bus Powered, no external power needed.

Model **SG9cdHfgh**, the following Model Code breakdown applies:

Where:

c = Enclosure

2 Aluminum flameproof (Ex d) IP66/Type 4X Enclosure

3 Stainless steel flameproof enclosure (Ex d), IP66 / Type 4X

d = Spool valve

12 Restricted capacity

15 Standard capacity

35 High capacity

37 Extended capacity

f = Approvals

U1 IS Class I, Division 1: Groups A, B, C, D; T4/T5/T6; IS Class I, Zone 0: Ex/AEx ia IIC; T4/T5/T6

U2 NI Class I, Division 2: Groups A, B, C, D; T4/T5/T6; NI Class I, Zone 2: Ex/AEx nA IIC; T4/T5/T6

U Both U1 and U2

g = Options of valve controller

- None

T Internal, 2 wire 4-20 mA (passive) position transmitter

V01-99 Branded Models

Y Special Construction – shall not affect hazardous area approvals

h = Limit switch type (according to F41446 and 41476)

• None

D44 Neles; Namur sensor dual module, 6 – 29 Vdc, > 3 mA; < 1 mA. Temperature range -40 to +82°C / -40 to +179°F

I02 P+F; NJ2-12GK-SN, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -40 to +85°C / -40 to +185°F

I09 P+F; NCB2-12GM35-N0, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -25 to +85°C / -13 to +185°F

I45 P+F; NJ3-18GK-S1N, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NO. Temperature range -25 to +85°C / -13 to +185°F

I41 P+F; NJ4-12GK-SN, 4 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8V, NAMUR NC. Temperature range -50 to +100°C / -58 to +212°F

I57 P+F; NJ2-V3-N, 2 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8.2V, NAMUR NC. Temperature range -25 to +100°C / -13 to +212°F

I58 P+F; NJ2-V3-N, 4 pieces

I60 P+F; NCB2-12GM40-E2-3G-3D, 2 pieces, 2-wire type, 1..200mA, 10..30Vdc, PNP NO, Temperature range -25 to +70°C / -13 to +158°F

CLASS 2258 84 PROCESS CONTROL EQUIPMENT – Intrinsically Safe, Entity – For Hazardous Locations – Certified to US Standards

Class I, Division 1, Groups A, B, C, and D; T4/T5/T6



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Class I, Zone 0 AEx ia IIC T4/T5/T6 Ga

- Valve Controller, series abcdHfgh and SG9cdHfgh; input rated max. 28 Vdc, 4 - 20 mA; with entity parameters: U_i (V_{max}) = 28 V, I_i (I_{max}) = 120 mA, P_i = 1.0 W, C_i = 22 nF, L_i = 53 μ H; optional output rated max. 28 Vdc, 4 - 20 mA; with entity parameters: U_i (V_{max}) = 28 V, I_i (I_{max}) = 120 mA, P_i = 1.0 W, C_i = 22 nF, L_i = 53 μ H; intrinsically safe when connected in accordance with Installation Drawing ND9000 Control Wiring (F71819). Enclosure Type 4X, IP66. Output values for remote position sensor (option "R") for ND91xxH version with entity parameters: $U_o(Voc)$ = 3.53V, $I_o(Isc)$ = 12.6mA, P_o = 11.1 mW, $Co(Ca)$ = 10nF, $Lo(La)$ = 10 μ H.
- Valve Controller, series abcdFfgh or abcdPfgh, input rated max. 24 Vdc; in accordance with the FISCO Model according to IEC 60079-27, with entity parameters: U_i = 24 V, I_i = 380 mA, P_i = 5.32 W, C_i = 5 nF, L_i = 10 μ H; intrinsically safe when connected in accordance with Installation Drawing ND9000 Control Wiring (F71819). Enclosure Type 4X, IP66. Output values for remote position sensor (option "R") for ND91xxF and ND91xxP version with entity parameters $U_o(Voc)$ = 5.0V, $I_o(Isc)$ = 17.8mA, P_o = 22.2mW, $Co(Ca)$ = 10nF, $Lo(La)$ = 10 μ H.

Class I, Division 2, Groups A, B, C, and D; T4/T5/T6

Class I, Zone 2 AEx ic IIC T4/T5/T6 Gc (* see Notes)

- Valve Controller, series abcdFfgh or abcdPfgh; input rated max. 32 Vdc; with entity parameters U_i = 32 Vdc, I_i = 380 mA, P_i = 5.32 W, C_i = 5 nF, L_i = 10 μ H in accordance with the "FISCO Model Ex ic". Intrinsically safe when connected in accordance with Installation Drawing ND9000 Control Wiring (F71819). Enclosure Type 4X, IP66. Output values for remote position sensor (option "R") is available only for ND91xx version with entity parameters: $U_o(Voc)$ = 3.53V, $I_o(Isc)$ = 12.6mA, P_o = 11.1 mW, $Co(Ca)$ = 10nF, $Lo(La)$ = 10 μ H. Output values for remote position sensor (option "R") for ND91xxF and ND91xxP version with entity parameters $U_o(Voc)$ = 5.0V, $I_o(Isc)$ = 17.8mA, P_o = 22.2mW, $Co(Ca)$ = 10nF, $Lo(La)$ = 10 μ H.

Ambient temperature range ("standard model"):

-40°C $\leq$ T_a $\leq$ +50°C for temperature class T6
-40°C $\leq$ T_a $\leq$ +65°C for temperature class T5
-40°C $\leq$ T_a $\leq$ +80°C for temperature class T4

For Cold version:

Ambient temperature range ("cold variant"):

-55°C $\leq$ T_a $\leq$ +50°C for temperature class T6
-55°C $\leq$ T_a $\leq$ +65°C for temperature class T5
-55°C $\leq$ T_a $\leq$ +80°C for temperature class T4

Supply pressure: 1.4 – 8 bar / 20 – 115 psi

Notes:

-If limit switches I09, I45, I57, I58 and I60 are used, the temperature rating marked on the identification plate attached to the product is to be adjusted accordingly.
-The limit switches will be supplied using safety barriers as per Installation Drawing ND9000 Control Wiring (F71819) or Drawing SG9000 Control Wiring (F86284).

Model **abcde fgh**, the following Model Code breakdown applies:

Where:

a = Marketing brand name
ND Neles



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-
- SD StoneL
- b = Diagnostics variant
- 7 Digital Valve Controller
 - 9 Intelligent Valve Controller
- c = Enclosure
- 1. Standard IP66 / Type 4X enclosure
 - 2. Aluminum flameproof (Ex d) IP66/Type 4X Enclosure
 - 3. Stainless steel flameproof (Ex d) IP66 / Type 4X enclosure
 - 4. Standard enclosure with stainless steel bottom
- d = Spool valve size
- 02 Low capacity
 - 03 Medium capacity
 - 06 High capacity
- e = Communication / input
- H HART communication, 4-20 mA current signal
 - F Foundation Fieldbus (according to FISCO, if intrinsically safe,)
 - P Profibus-PA (according to FISCO, if intrinsically safe,)
- f = Approvals
- U1 IS Class I, Division 1: Groups A, B, C, D; T4/T5/T6; IS Class I, Zone 0: Ex/AEx ia IIC; T4/T5/T6
 - U2 NI Class I, Division 2: Groups A, B, C, D; T4/T5/T6; NI Class I, Zone 2: Ex/AEx nA IIC; T4/T5/T6
 - U Both U1 and U2
- g = Options of valve controller
- None
 - T Internal, 2 wire 4-20 mA (passive) position transmitter (.D9...H... only)
 - G Exhaust adapter
 - C Cold (-55°C) variant
 - R Remote position sensor (only available for ND91xx)
 - P Partial Stroke Test
 - V01-99 Branded Models
 - Y Special Construction - shall not affect hazardous area approvals
- h = Limit switch type (according to F41446 and 41476)
- None
 - D44 Neles; Namur sensor dual module, 6 – 29 Vdc, > 3 mA; < 1 mA. Temperature range -40 to +82°C / -40 to +179°F
 - I02 P+F; NJ2-12GK-SN, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -40 to +85°C / -40 to +185°F
 - I09 P+F; NCB2-12GM35-N0, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -25 to +85°C / -13 to +185°F
 - I45 P+F; NJ3-18GK-S1N, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NO. Temperature range -25 to +85°C / -13 to +185°F
 - I41 P+F; NJ4-12GK-SN, 4 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8V, NAMUR NC. Temperature range -50 to +100°C / -58 to +212°F
 - I57 P+F; NJ2-V3-N, 2 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8.2V, NAMUR NC. Temperature range -25 to



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- +100°C / -13 to +212°F
- I58 P+F; NJ2-V3-N, 4 pieces
- I60 P+F; NCB2-12GM40-E2-3G-3D, 2 pieces, 2-wire type, 1..200mA, 10..30Vdc, PNP NO, Temperature range -25 to +70°C / -13 to +158°F
- B06 OMRON D2VW-01L2A-1MS. Bus Powered, no external power needed.

Model **SG9cdHfgh**, the following Model Code breakdown applies:

Where:

- c = Enclosure
- 2 Aluminum flameproof (Ex d) IP66/Type 4X Enclosure
 - 3 Stainless steel flameproof enclosure (Ex d), IP66 / Type 4X
- d = Spool valve
- 12 Restricted capacity
 - 15 Standard capacity
 - 35 High capacity
 - 37 Extended capacity
- f = Approvals
- U1 IS Class I, Division 1: Groups A, B, C, D; T4/T5/T6; IS Class I, Zone 0: Ex/AEx ia IIC; T4/T5/T6
 - U2 NI Class I, Division 2: Groups A, B, C, D; T4/T5/T6; NI Class I, Zone 2: Ex/AEx nA IIC; T4/T5/T6
 - U Both U1 and U2
- g = Options of valve controller
- None
 - T Internal, 2 wire 4-20 mA (passive) position transmitter
 - V01-99 Branded Models
 - Y Special Construction – shall not affect hazardous area approvals
- h = Limit switch type (according to F41446 and 41476)
- None
 - D44 Neles; Namur sensor dual module, 6 – 29 Vdc, > 3 mA; < 1 mA. Temperature range -40 to +82°C / -40 to +179°F
 - I02 P+F; NJ2-12GK-SN, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -40 to +85°C / -40 to +185°F
 - I09 P+F; NCB2-12GM35-N0, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -25 to +85°C / -13 to +185°F
 - I45 P+F; NJ3-18GK-S1N, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NO. Temperature range -25 to +85°C / -13 to +185°F
 - I41 P+F; NJ4-12GK-SN, 4 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8V, NAMUR NC. Temperature range -50 to +100°C / -58 to +212°F
 - I57 P+F; NJ2-V3-N, 2 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8.2V, NAMUR NC. Temperature range -25 to +100°C / -13 to +212°F
 - I58 P+F; NJ2-V3-N, 4 pieces
 - I60 P+F; NCB2-12GM40-E2-3G-3D, 2 pieces, 2-wire type, 1..200mA, 10..30Vdc, PNP NO, Temperature range -25 to +70°C / -13 to +158°F

CLASS 2258 02 PROCESS CONTROL EQUIPMENT – For Hazardous Locations



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Class I, Division 2, Groups A, B, C, and D; T4/T5/T6

Ex nA IIC T4/T5/T6 Gc or Ex nA ia IIC T4/T5/T6 Gc Ga (* see Notes)

- Valve Controller, series abcdHfgh and SG9cdHfgh; with input and output rated $U \leq 30 \text{ Vdc}$, $I = 4 - 20 \text{ mA}$. Enclosure Type 4X, IP66.

Ambient temperature range:

$-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ for temperature class T6

$-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$ for temperature class T5

$-40^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$ for temperature class T4

For Cold version:

Ambient temperature range ("cold variant"):

$-55^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ for temperature class T6

$-55^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$ for temperature class T5

$-55^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$ for temperature class T4

Notes:

-If limit switches I09, I45, I57, I58 and I60 are used, the temperature rating marked on the identification plate attached to the product is to be adjusted accordingly.

*The limit switches will be supplied using safety barriers as per Installation Drawing ND9000 Control Wiring (F71819) or Drawing SG9000 Control Wiring (F86284).

Supply pressure: 1.4 – 8 bar / 20 – 115 psi

Model **abcdefgh**, the following Model Code breakdown applies:

Where:

a = Marketing brand name

ND Neles

SD StoneL

b = Diagnostics Variant

7 Digital Valve Controller

9 Intelligent Valve Controller

c = Enclosure

1. Standard IP66 / Type 4X enclosure

2. Aluminum flameproof (Ex d) IP66/Type 4X Enclosure

3. Stainless steel flameproof (Ex d) IP66 / Type 4X enclosure

4. Standard enclosure with stainless steel bottom

d = Spool valve size

02 Low capacity

03 Medium capacity

06 High capacity

e = Communication / input

H HART communication, 4-20 mA current signal



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f = Approvals

- U1 IS Class I, Division 1: Groups A, B, C, D; T4/T5/T6; IS Class I, Zone 0: Ex/Aex ia IIC; T4/T5/T6
- U2 NI Class I, Division 2 : Groups A, B, C, D; T4/T5/T6; NI Class I, Zone 2 : Ex/Aex nA IIC; T4/T5/T6
- U Both U1 and U2

g = Options of valve controller

- None
- T Internal, 2 wire 4-20 mA (passive) position transmitter (.D9...H... only)
- G Exhaust adapter
- C Cold (-55°C) variant
- R Remote position sensor (only available for ND91xxdH)
- P Partial Stroke Test
- V01-99 Branded Models
- Y Special Construction – shall not affect hazardous area approvals

h = Limit switch type (according to F41446 and 41476)

- None
- D44 Neles; Namur sensor dual module, 6 – 29 Vdc, > 3 mA; < 1 mA. Temperature range -40 to +82°C / -40 to +179°F
- I02 P+F; NJ2-12GK-SN, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -40 to +85°C / -40 to +185°F
- I09 P+F; NCB2-12GM35-N0, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -25 to +85°C / -13 to +185°F
- I45 P+F; NJ3-18GK-S1N, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NO. Temperature range -25 to +85°C / -13 to +185°F
- I41 P+F; NJ4-12GK-SN, 4 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8V, NAMUR NC. Temperature range -50 to +100°C / -58 to +212°F
- I57 P+F; NJ2-V3-N, 2 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8.2V, NAMUR NC. Temperature range -25 to +100°C / -13 to +212°F
- I58 P+F; NJ2-V3-N, 4 pieces
- I60 P+F; NCB2-12GM40-E2-3G-3D, 2 pieces, 2-wire type, 1..200mA, 10..30Vdc, PNP NO, Temperature range -25 to +70°C / -13 to +158°F

Model **SG9cdHfgh**, the following Model Code breakdown applies:

Where:

c = Enclosure

- 2 Standard anodized aluminum enclosure, IP66 / Type 4X
- 3 Stainless steel flameproof enclosure (Ex d), IP66 / Type 4X

d = Spool valve

- 12 Restricted capacity
- 15 Standard capacity
- 35 High capacity
- 37 Extended capacity

f = Approvals

- U1 IS Class I, Division 1: Groups A, B, C, D; T4/T5/T6; IS Class I, Zone 0: Ex/AEx ia IIC; T4/T5/T6
- U2 NI Class I, Division 2: Groups A, B, C, D; T4/T5/T6; NI Class I, Zone 2: Ex/AEx nA IIC; T4/T5/T6



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U	Both U1 and U2
g =	Options of valve controller
-	None
T	Internal, 2 wire 4-20 mA (passive) position transmitter
	V01-99 Branded models
Y	Special Construction – shall not affect hazardous area approvals
h =	Limit switch type
D44	Neles; Namur sensor dual module, 6 – 29 Vdc, > 3 mA; < 1 mA. Temperature range -40 to +82°C / -40 to +179°F
I02	P+F; NJ2-12GK-SN, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -40 to +85°C / -40 to +185°F
I09	P+F; NCB2-12GM35-N0, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -25 to +85°C / -13 to +185°F
I45	P+F; NJ3-18GK-S1N, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NO. Temperature range -25 to +85°C / -13 to +185°F
I41	P+F; NJ4-12GK-SN, 4 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8V, NAMUR NC. Temperature range -50 to +100°C / -58 to +212°F
I57	P+F; NJ2-V3-N, 2 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8.2V, NAMUR NC. Temperature range -25 to +100°C / -13 to +212°F
I58	P+F; NJ2-V3-N, 4 pieces
I60	P+F; NCB2-12GM40-E2-3G-3D, 2 pieces, 2-wire type, 1..200mA, 10..30Vdc, PNP NO, Temperature range -25 to +70°C / -13 to +158°F

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

Class I, Division 2, Groups A, B, C, and D; T4/T5/T6

Ex nA IIC T4/T5/T6 Gc or Ex nA ia IIC T4/T5/T6 Gc Ga (* see Notes)

Class I, Zone 2 AEx nA IIC T4/T5/T6 Gc or Ex nA ia IIC T4/T5/T6 Gc Ga (* see Notes)

- Valve Controller, series abcdHfgh and SG9cdHfgh; with input and output rated $U \leq 30$ Vdc, $I = 4 - 20$ mA. Enclosure Type 4X, IP66.

Ambient temperature range:

$-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ for temperature class T6

$-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$ for temperature class T5

$-40^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$ for temperature class T4

For Cold version:

Ambient temperature range (“cold variant”):

$-55^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ for temperature class T6

$-55^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$ for temperature class T5

$-55^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$ for temperature class T4

Notes:

-If limit switches I09, I45, I57, I58 and I60 are used, the temperature rating marked on the identification plate attached to the product is to be adjusted accordingly.



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*The limit switches will be supplied using safety barriers as per Installation Drawing ND9000 Control Wiring (F71819) or Drawing SG9000 Control Wiring (F86284).

Supply pressure: 1.4 – 8 bar / 20 – 115 psi

Model **abcde fgh**, the following Model Code breakdown applies:

Where:

- a = Marketing brand name
 - ND Neles
 - SD StoneL
- b = Diagnostics Variant
 - 7 Digital Valve Controller
 - 9 Intelligent Valve Controller
- c = Enclosure
 - 1. Standard IP66 / Type 4X enclosure
 - 2. Aluminum flameproof (Ex d) IP66/Type 4X Enclosure
 - 3. Stainless steel flameproof (Ex d) IP66 / Type 4X enclosure
 - 4. Standard enclosure with stainless steel bottom
- d = Spool valve size
 - 02 Low capacity
 - 03 Medium capacity
 - 06 High capacity
- e = Communication / input
 - H HART communication, 4-20 mA current signal
- f = Approvals
 - U1 IS Class I, Division 1: Groups A, B, C, D; T4/T5/T6; IS Class I, Zone 0: Ex/Aex ia IIC; T4/T5/T6
 - U2 NI Class I, Division 2 : Groups A, B, C, D; T4/T5/T6; NI Class I, Zone 2 : Ex/Aex nA IIC; T4/T5/T6
 - U Both U1 and U2
- g = Options of valve controller
 - None
 - T Internal, 2 wire 4-20 mA (passive) position transmitter (.D9...H... only)
 - G Exhaust adapter
 - C Cold (-55°C) variant
 - R Remote position sensor (only available for ND91xxH)
 - P Partial Stroke Test
 - V01-99 Branded Models
 - Y Special Construction – shall not affect hazardous area approvals
- h = Limit switch type (according to F41446 and 41476)
 - None
 - D44 Neles; Namur sensor dual module, 6 – 29 Vdc, > 3 mA; < 1 mA. Temperature range -40 to +82°C / -40 to +179°F
 - I02 P+F; NJ2-12GK-SN, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -40 to +85°C / -40 to +185°F



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I09	P+F; NCB2-12GM35-N0, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -25 to +85°C / -13 to +185°F
I45	P+F; NJ3-18GK-S1N, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NO. Temperature range -25 to +85°C / -13 to +185°F
I41	P+F; NJ4-12GK-SN, 4 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8V, NAMUR NC. Temperature range -50 to +100°C / -58 to +212°F
I57	P+F; NJ2-V3-N, 2 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8.2V, NAMUR NC. Temperature range -25 to +100°C / -13 to +212°F
I58	P+F; NJ2-V3-N, 4 pieces
I60	P+F; NCB2-12GM40-E2-3G-3D, 2 pieces, 2-wire type, 1..200mA, 10..30Vdc, PNP NO, Temperature range -25 to +70°C / -13 to +158°F

Model **SG9cdHfgh**, the following Model Code breakdown applies:

Where:

c =	Enclosure
2	Standard anodized aluminum enclosure, IP66 / Type 4X
3	Stainless steel flameproof enclosure (Ex d), IP66 / Type 4X
d =	Spool valve
12	Restricted capacity
15	Standard capacity
35	High capacity
37	Extended capacity
f =	Approvals
U1	IS Class I, Division 1: Groups A, B, C, D; T4/T5/T6; IS Class I, Zone 0: Ex/AEx ia IIC; T4/T5/T6
U2	NI Class I, Division 2: Groups A, B, C, D; T4/T5/T6; NI Class I, Zone 2: Ex/AEx nA IIC; T4/T5/T6
U	Both U1 and U2
g =	Options of valve controller
-	None
T	Internal, 2 wire 4-20 mA (passive) position transmitter
V01-99	Branded models
Y	Special Construction – shall not affect hazardous area approvals
h =	Limit switch type
D44	Neles; Namur sensor dual module, 6 – 29 Vdc, > 3 mA; < 1 mA. Temperature range -40 to +82°C / -40 to +179°F
I02	P+F; NJ2-12GK-SN, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -40 to +85°C / -40 to +185°F
I09	P+F; NCB2-12GM35-N0, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NC. Temperature range -25 to +85°C / -13 to +185°F
I45	P+F; NJ3-18GK-S1N, 2-wire type, DC; > 3 mA; < 1 mA, NAMUR NO. Temperature range -25 to +85°C / -13 to +185°F
I41	P+F; NJ4-12GK-SN, 4 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8V, NAMUR NC. Temperature range -50 to +100°C / -58 to +212°F
I57	P+F; NJ2-V3-N, 2 pieces, 2-wire type, DC; > 3 mA; < 1 mA, 8.2V, NAMUR NC. Temperature range -25 to +100°C / -13 to +212°F
I58	P+F; NJ2-V3-N, 4 pieces



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I60 P+F; NCB2-12GM40-E2-3G-3D, 2 pieces, 2-wire type, 1..200mA, 10..30Vdc, PNP NO, Temperature range -25 to +70°C / -13 to +158°F

APPLICABLE REQUIREMENTS

Standards Used	Description
CSA C22.2 No. 94-M91 - Fourth Edition	Special Purpose Enclosures Industrial Products
CSA C22.2 No. 142-M1987 - Third Edition	Process Control Equipment
CSA C22.2 No. 213-M1987 - First Edition	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations Industrial Products - General Instruction No. 1
CAN/CSA C22.2 No. 60079-0:11 - Second Edition	Explosive atmospheres — Part 0: Equipment — General requirements
CAN/CSA-C22.2 No 60079-11:14	Explosive Atmospheres - Part 11: Equipment protection by intrinsic safety 'i'
CAN/CSA C22.2 No. 60079-15:12 - First Edition	Electrical apparatus for explosive gas atmospheres — Part 15: Construction, test and marking of type of protection 'n' electrical apparatus.
ANSI/ISA 60079-0:2009 (12.00.01)	Explosive Atmospheres - Part 0: Equipment - General Requirements
ANSI/ISA 60079-11 (12.02.01):2012 - 6th Edition	Explosive Atmospheres – Part 11: Equipment protection by intrinsic safety “i”
ANSI/ISA-60079-15(12.12.02)-2012	Explosive atmospheres - Part 15: Equipment protection by tyoe of protection "n" (Edition 4)
FM 3600:1998	Electrical Equipment for use in Hazardous (Classified) Locations – General Requirements
FM 3610:1999	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, & III, Division 1, and Class I, Zone 0 & 1 Hazardous (Classified) Locations
FM 3611:1999	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
FM 3810	Electrical Equipment for Measurement, Control and Laboratory Use
NEMA 250:1991	Enclosures for Electrical Equipment (1000 Volts Maximum)



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Notes:

Products certified under Class(es) C225802, C225804, C225882, C225884 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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*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
80282354	2026-03-20	FIR follow-up, update to Report 1552597 to address (FC# 168669) FIR dated November 20, 2025, drawing updates
80059145	2022-01-14	Variation to report 1552597 1.Modification of standard – CAN/CSA C22.2 No. 60079-11 2.Company name change ‘Metso Flow Control’ to ‘Neles Finland Oy’ 3.Removal of unused adhesive label Brady B-483/R6002 black 4.Various drawing modifications
70164717	2017-12-20	Updating 1552597 report for alternative LUI(Lapis), a limit switch update and some new type codes
70053869	2016-05-27	Update the report 1552597 to change or add some components and updating some boards.
70014843	2014-11-18	Evaluation to update Report 1552597 to include revised descriptive documents. Assumes no testing required.
2583155	2013-07-12	Update of report 1552597 to include SD and SG Series along with US Certification.
2470069	2011-10-28	Descriptive and Test Report updated
2174688	2009-05-18	The construction of the enclosure ND9300H changed into stainless steel.
1928300	2007-06-29	The Valve Controllers Model ND910abcdef can be additional produced in a stainless steel enclosure as Model ND9300H. The enclosure is Type 4 X and IP66
1784326	2006-05-18	Update to report 155257 to include some redesign and changes to the pcbs
1646929	2005-03-14	UPDATE TO 1552597 PCB CHANGE KEMA NL REF 207803100 NO R3 WORK REQUIRED - APR 11, 2005



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1552597 2004-06-15

NEW MODEL CERTIFICATION DIGITAL VALVE CONTROLLERS ND9100H
SERIES / ND9100F SERIES AND ND9100 P SERIE KEMA NL REF 203668300 NO
EVIDENCE OF R3 WORK