



NEMA 1



Open Type

Class 9012 Type G Pressure Switches

Table 22.45: Fixed Differential, Open Type or NEMA 1 Enclosure

Range On Decreasing Pressure psig	Approximate Differential at Mid-Range psig [3]	Maximum Allowable Pressure psig	Open Type	NEMA 1
			Catalog No.	Catalog No.
Diaphragm Actuated—Nitrile (Buna-N) Diaphragm, Zinc Plated Steel Housing				
0.2–10	0.4 ±0.1	100	9012GRO1	9012GRG1
1–40	1.2 ±0.3	100	9012GRO3	9012GRG3
1.5–75	2.2 ±0.4	240	9012GRO4	9012GRG4
3–150	4.2 ±1	475	9012GRO5	9012GRG5
5–250	7.4 ±2	750	9012GRO6	9012GRG6
13–425	13 ±3	850	—	9012GSG1
20–675	19 ±5	2000	—	9012GSG2
Piston Actuated—#440 Stainless Steel Piston, #303 Stainless Steel Housing, Viton® Fluorocarbon Diaphragm and O-Ring, Teflon® Retaining Ring				
20–1000	49 ±10	10000	—	9012GTG1
90–2900	141 ±15	15000	9012GTO2	9012GTG2
170–5600	200 ±40	20000	9012GTO3	9012GTG3
270–9000	350 ±45	25000	—	9012GTG4

Table 22.46: Adjustable Differential, Open Type or NEMA 1 Enclosure

Range On Decreasing Pressure psig	Approximate Mid-Range Differential Adds to Decreasing Set Point [3]	Maximum Allowable Pressure psig	Open Type	NEMA 1
			Catalog No.	Catalog No.
Diaphragm Actuated—Nitrile (Buna-N) Diaphragm, Zinc Plated Steel Housing				
0.2–10	0.4–0.9	100	9012GNO1	9012GNG1
1–40	1.2–3.6	100	9012GNO3	9012GNG3
1.5–75	2.2–6.6	240	9012GNO4	9012GNG4
3–150	4.2–13.2	475	9012GNO5	9012GNG5
5–250	7.4–33.6	750	9012GNO6	9012GNG6
13–425	13–37.2	850	9012GPO1	9012GPG1
20–675	19–58.8	2000	9012GPO2	9012GPG2
Piston Actuated—#440 Stainless Steel Piston, #303 Stainless Steel Housing, Viton Fluorocarbon Diaphragm and O-Ring, Teflon Retaining Ring				
20–1000	49–150	10000	—	9012GQG1
90–2900	141–455	15000	9012GQO2	9012GQG2
170–5600	200–950	20000	9012GQO3	9012GQG3
270–9000	350–1400	25000	—	9012GQG4

Table 22.47: Available Modifications [4]

Modification	Applies to	Form
Standard Nitrile (Buna-N) diaphragm in #316 stainless steel housing	Not available on GNG1, GNO1, GRG1, or GRO1. Available on all other GNG, GNO, GPG, GPO, GRG, GRO, GSG, and GSO switches.	Q1
Viton fluorocarbon diaphragm in #316 stainless steel housing	Not available on GNG1, GNO1, GRG1, or GRO1. Available on all other GNG, GNO, GPG, GPO, GRG, GRO, GSG, and GSO switches.	Q4
1/4–18 NPT external thread pressure connection	GNG, GNO, GRG, GRO	Z
1/2–14 NPT external thread, 1/4–18 NPTF internal thread pressure connection. Standard actuator only.	GNG, GNO, GRG, GRO	Z16
7/16–20 UNF-2B internal thread pressure connection	GNG, GNO, GPG, GPO, GQG, GQO, GRG, GRO, GSG, GSO, GTG, GTO	Z18

Table 22.48: Class 9049 Accessories for Class 9012 Pressure Switches

Description	Applies to Class	Catalog No.
Stainless steel surge reducer for use on oils, coolants, and hydraulic fluids (not recommended for air or water)	9012G	9049A26S

Acceptable Wire Sizes 12-22 AWG

Recommended Terminal Clamp Torque 7 lb-in

Electrical Rating [page 22-19](#)Temperature Rating [page 22-19](#)Renewal Parts Kits [page 22-34](#)File E12158
CCN NKPZFile LR25490
Class 3211-03

[3] Determines operating point on rising pressure.

[4] Some product configurations are not available—contact your Schneider Electric representative for details.

Control Circuit Rated Type G Pressure Switches

Class 9012 single stage pressure switches are control circuit rated devices used in pneumatic or hydraulic systems on a wide variety of machine and process applications to protect the equipment and control or monitor the system pressure.

- Type G machine tool switches are available with NEMA Type 4, 4X, and 13 (IEC IP66) enclosure ratings.
- The NEMA 7 and 9 devices are UL listed for use in the following hazardous locations: Class I, Divisions 1 and 2, Groups C and D; and Class II, Divisions 1 and 2, Groups E, F, and G.
- Enclosure materials are cast aluminum.
- To ensure repeatability and minimize setting drift, pressure settings should fall within the middle 80 percent of the pressure range.



9012GAW5
NEMA 4, 4X, 13

Table 22.49: Fixed Differential [5]

NEMA 4, 4X, 13 Enclosure

UL Listed and CSA Certified As Industrial Control Equipment

Range on Decreasing Pressure psig	[6] Approximate Differential at Mid-Range psig	Maximum Allowable Pressure psig	Single Pole Double Throw Catalog No.	Double Pole Double Throw Catalog No.
Diaphragm Actuated—Nitrile (Buna-N) Diaphragm, Zinc Plated Steel Housing				
2–10	0.6 ±0.1	100	9012GDW1	9012GDW21
1–40	1.6 ±0.4	100	9012GDW2	9012GDW22
1.5–75	3.0 ±0.5	240	9012GDW4	9012GDW24
3–150	6.0 ±0.8	475	9012GDW5	9012GDW25
5–250	10.0 ±1.5	750	9012GDW6	9012GDW26
13–425	16 ±3.5	850	9012GEW1	9012GEW21
20–675	27 ±5	2000	9012GEW2	9012GEW22
Piston Actuated—#440 Stainless Steel Piston. #303 Stainless Steel Housing, Viton® Fluorocarbon Diaphragm and O-ring, Teflon® Retaining Ring				
20–1000	59 ±9	10000	9012GFW1	9012GFW21
90–2900	170 ±15	15000	9012GFW2	9012GFW22
170–5600	289 ±55	20000	9012GFW3	9012GFW23
270–9000	495 ±70	25000	9012GFW4	9012GFW24

Table 22.50: Adjustable Differential [5]

NEMA 4, 4X, 13 EnclosureUL Listed and CSA Certified As Industrial Control Equipment

Range on Decreasing Pressure psig	[6] Adjustable Differential Approximate at Mid-Range	Maximum Allowable Pressure psig	Single Pole Double Throw Catalog No.	Double Pole Double Throw Catalog No.
Diaphragm Actuated—Nitrile (Buna-N) Diaphragm, Zinc Plated Steel Housing				
2–10	0.6–2	100	9012GAW1	9012GAW21
1–40	1.6–8	100	9012GAW2	9012GAW22
1.5–75	3.5–15	240	9012GAW4	9012GAW24
3–150	6.0–30	475	9012GAW5	9012GAW25
5–250	10.0–49	750	9012GAW6	9012GAW26
13–425	16–90	850	9012GBW1	9012GBW21
20–675	27–130	2000	9012GBW2	9012GBW22
Piston Actuated—#440 Stainless Steel Piston. #303 Stainless Steel Housing, Viton Fluorocarbon Diaphragm and O-ring, Teflon® Retaining Ring				
20–1000	59–200	10000	9012GCW1	9012GCW21
90–2900	170–560	15000	9012GCW2	9012GCW22
170–5600	289–1260	20000	9012GCW3	9012GCW23
270–9000	495–1900	25000	9012GCW4	9012GCW24

Table 22.51: Fixed Differential

NEMA 7 & 9 Enclosure

Class I & II, Division 1 & 2, Groups C, D, E, F, G

Range on Decreasing Pressure psig	[6] Approximate Differential at Mid-Range psig	Maximum Allowable Pressure psig	Single Pole Double Throw Catalog No.	Double Pole Double Throw Catalog No.
Diaphragm Actuated—Nitrile (Buna-N) Diaphragm, Zinc Plated Steel Housing				
0.2–10	1.0 ±0.1	100	9012GDR1	—
1–40	2.4 ±0.8	100	9012GDR2	9012GDR22
1.5–75	4.5 ±1	240	9012GDR4	9012GDR24
3–150	9 ±1.5	475	9012GDR5	9012GDR25
5–250	15 ±3	750	9012GDR6	9012GDR26
13–425	25 ±7	850	9012GER1	9012GER21
Piston Actuated—#440 Stainless Steel Piston. #303 Stainless Steel Housing, Viton Fluorocarbon Diaphragm and O-ring, Teflon® Retaining Ring				
20–1000	89 ±18	10000	9012GFR1	9012GFR21
90–2900	255 ±30	15000	9012GFR2	9012GFR22
170–5600	578 ±110	20000	9012GFR3	—

Acceptable Wire Sizes: 12–22 AWG
Recommended Terminal Clamp Torque: 7 lb-in
Electrical Rating: see page 22-19
Temperature Rating: see page 22-19
Modifications: see page 22-21
Accessories: see page 22-21
Renewal Parts Kits: see page 22-34
Dimensions: see page 22-20

Table 22.52: Adjustable Differential

NEMA 7 & 9 Enclosure

Class I & II, Division 1 & 2, Groups C, D, E, F, G

Range on Decreasing Pressure psig	[6] Adjustable Differential Approximate at Mid-Range	Maximum Allowable Pressure psig	Single Pole Double Throw Catalog No.	Double Pole Double Throw Catalog No.
Diaphragm Actuated—Nitrile (Buna-N) Diaphragm, Zinc Plated Steel Housing				
0.2–10	1.0–2	100	9012GAR1	9012GAR21
1–40	2.4–8	100	9012GAR2	9012GAR22
1.5–75	4.5–15	240	9012GAR4	9012GAR24
3–150	9–35	475	9012GAR5	9012GAR25
5–250	15–49	750	9012GAR6	9012GAR26
13–425	25–90	850	9012GBR1	9012GBR21
20–675	41–130	2000	9012GBR2	9012GBR22
Piston Actuated—#440 Stainless Steel Piston. #303 Stainless Steel Housing, Viton Fluorocarbon Diaphragm and O-ring, Teflon® Retaining Ring				
20–1000	89–200	10000	9012GCR1	9012GCR21
90–2900	255–560	15000	9012GCR2	—
170–5600	578–1260	20000	9012GCR3	9012GCR23
270–9000	788–1900	25000	9012GCR4	—



File: E12443 Haz. Loc. CCN NOWT G•R
File: E12158 CCN NKPZ G•O, G•G, G•W
File: E12158 CCN NTHT Marine Use, G•W



File: LR25490 Class 3211-03 G•W, G•O, G•G
File: LR26817 Class 3218-02 G•R



Complies with IEC 60957.5.1, 5C8.3.4 when protected with a Bussmann CCKTK-R-10 fuse.

[5] For metric threads, add **M** after the **W** on all types (offered at an additional cost).
To order a Pg13.5 electrical conduit entry and a 1/4"-19 BSP pressure connection, add M12 to the end of the catalog number, as well as adding "M" after "W" for metric threads. For example:
9012GAW1 = 1/2" NPT electrical conduit entry
9012GAWM1 = 20 x 1.5 mm electrical conduit entry
9012GAWM1M12 = Pg13.5 electrical conduit entry and 1/4"-19 BSP pressure connection.

[6] The differential adds to the range setting and determines the operating point on rising pressure.



9012GGW1

Differential/Dual Stage, Type G

Differential-Pressure Operation

Pressure switches for differential-pressure operation monitor the change in the difference between two pressures. Type G differential-pressure switches are used in applications to signal that a predetermined pressure difference has been reached as a result of a widening or increasing difference between the two pressures. They can also signal that a predetermined pressure difference has been reached as a result of a narrowing or decreasing difference between the two pressures.

Table 22.53: Differential-Pressure Switches

NEMA 4, 4X, 13 Enclosures

UL Listed and CSA Certified As Industrial Control Equipment [7]

Working Pressure Range on Decreasing X (upper) Actuator	Adjustable Difference on Decreasing Pressure (adds to working pressure) Y (lower) Actuator	Adjustable Differential Actuates on Increasing Pressure (adds to adjustable difference)	Maximum Allowable Pressure psi	Single Pole Double Throw Cat. No.	Double Pole Double Throw Cat. No.
Diaphragm Actuated—Nitrile (Buna-N) Diaphragm, Zinc Plated Steel Housing					
0–75	0.25–10	0.8–2	100	GGW1	GGW21
0–175	0.5–36	5–15	240	GGW4	GGW24
0–500	3–175	22–90	850	GHW1	GHW21
Piston Actuated—#440 Stainless Steel Piston. #303 Stainless Steel Housing, Viton® Fluorocarbon Diaphragm and O-ring, Teflon® Retaining Ring					
0–5000	15–825	80–200	7500	GJW1	GJW21

Dual-Stage Operation

Type G dual stage pressure switches are designed for use in applications where two separate pressure operations must be controlled by a single pressure monitoring device. These controls are most commonly used where dual functions are required or in sequencing applications such as alarm, followed by shutdown.

Table 22.54: Dual-Stage Pressure Switch

NEMA 4, 4X, 13 Enclosure

UL Listed and CSA Certified As Industrial Control Equipment [8]

	Range Setting Limits of Pressure Between Which Stage 1 Can Be Adjusted to Operate on Decreasing Pressure	Add Adjustable Spread to Range Setting to Obtain Decreasing Operating Point of Stage 2	Fixed Differential—Add to Low (Decreasing) Operating Point to Obtain Approximate High (Rising) Operating Point of Each Stage		Maximum Allowable Pressure psi	SPDT Each Stage
			Stage 1	Stage 2		Catalog No.
Diaphragm Actuated—Nitrile (Buna-N) Diaphragm, Zinc Plated Steel Housing						
	.2–10	1–5	1.0 ±0.2	1.5 ±0.4	100	9012GKW1
	1–40	4–20	4.0 ±1.0	6.0 ±1.5	100	9012GKW2
	1.5–75	6–30	5.0 ±1.5	8.0 ±2.0	240	9012GKW4
	3–150	12–75	8.0 ±2.0	12 ±3	475	9012GKW5
	5–250	22–110	14 ±3	21 ±5	750	9012GKW6
	13–425	40–180	20 ±4	30 ±7.5	850	9012GLW1
	20–675	45–250	30 ±6	45 ±11	2000	9012GLW2
	Piston Actuated—#400 Stainless Steel Piston, #303 Stainless Steel Housing, Viton® Fluorocarbon Diaphragm and O-ring, Teflon® Retaining Ring					
	20–1000	50–300	50 ±10	75 ±19	10000	9012GMW1
	90–2900	140–800	140 ±30	210 ±52	15000	9012GMW2
	170–5600	300–1700	275 ±60	400 ±100	20000	9012GMW3
	270–9000	500–2500	400 ±80	800 ±150	25000	9012GMW4



9012GKW1

Ordering Dual-Stage Pressure Switches

- Specify Class 9012 Type..., and indicate the high or low operating point for each stage within the limits shown in the above table.

Example:

Class 9012 Type GKW4

Set: Stage 1 at 30 psi decreasing pressure

Stage 2 at 50 psi decreasing pressure

(20 psi spread)

Differential of each stage will be approximately as shown in the table above.

- For available modifications see page 22-21. If one or more of these modifications are desired, add the appropriate Form to the Class and Type. Arrange form letters in alphabetical order when ordering more than one modification.

Acceptable Wire Sizes 12-22 AWG
 Recommended Terminal Clamp Torque 7 lb-in
 Electrical Rating page 22-19
 Temperature Rating page 22-19
 Modifications page 22-21
 Accessories page 22-21
 Renewal Parts Kits page 22-34
 Dimensions page 22-20

File E12158
File E12158CCN NKPZ
CCN NTHT - Marine Use

File LR25490

Class 3211-03



[7] UL Marine Listed for use on vessels greater than 65 feet long where ignition protection is not required.

[8] UL Marine Listed for use on vessels greater than 65 feet long where ignition protection is not required.

Electrical Ratings

Table 22.55: Control Duty Circuit Ratings

Contacts	AC—50 or 60 Hz						DC			AC or DC
	V	Inductive, 35% Power Factor				Resistive 75% Power Factor Make and Break Amperes	Inductive and Resistive Make and Break Amperes			
		Make		Break			Single Throw	Double Throw		
		A	VA	A	VA					
SPDT	120	60	7200	6	720	6	120	0.55	0.22	10
	240	30	7200	3	720	3	250	0.27	0.11	10
	480	15	7200	1.5	720	1.5	600	0.10	—	10
	600	12	7200	1.2	720	1.2	—	—	—	—
DPDT	120	60	7200	6	720	6	125	0.22	0.22	10
	240	30	7200	3	720	3	250	0.11	0.11	10
	480	15	7200	1.5	720	1.5	600	—	—	10
	600	12	7200	1.2	720	1.2	—	—	—	—

Table 22.56: Type G Machine Tool and Vacuum (except GVG)

Type	Contact Arrangement	Contact Symbol
Single Pole Double Throw	1 N.O.—1 N.C.	

NOTE: Snap switch contains two double-break contact elements (1 N.O. and 1 N.C.) that must be used on circuits of same polarity.

Type	Contact Arrangement	Contact Symbol
Double Pole Double Throw	2 N.O.—2 N.C.	

NOTE: Snap switch contains two electrically separated sets of contact elements allowing use on circuits of opposite polarity. Each set contains two double break contact elements (1 N.O. and 1 N.C.) that must be used on circuits of the same polarity.

Table 22.57: Type G Industrial

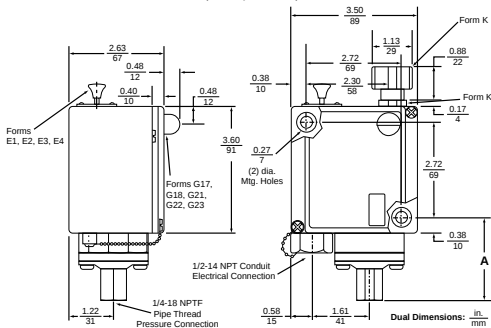
Contact Arrangement	Contact Symbol
1 N.O.—1 N.C. (600 Vdc rating does not apply)	

NOTE: Contacts are single pole, double throw—one circuit normally open and one circuit normally closed. These circuits are not electrically separate and can not be used on opposite polarities.

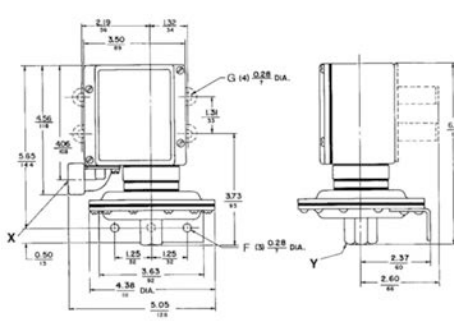
Table 22.58: Temperature Ratings

	Actuator	Minimum	Maximum
Ambient	All	-23 °C (-10 °F)	+85 °C (+185 °F)
	Diaphragm	-40 °C (-40 °F)	
Media	Piston	-26 °C (-15 °F)	+120 °C (+250 °F)
	All with Forms Q4 and Q14	-26 °C (-15 °F)	

Types GAW, GBW, GCW, GDW, GEW, GFW, GKW, GLW, and GMW
Machine Tool Switches
(except 1, 21)



Types GAW, GDW, GKW 1, 21



X: Conduit connection: G•W = 1/2-14 NPT; G•WM = 20MMBGS4568, Form M12 = Pg13.5; DIN40430.

Y: Pressure connection: G•W = 1/4-18 NPTF; G•WM = 8; Form M14 = G 1/4 BS 2779; RP1/4 ISO 711; R 1/4 DIN 2999; GJ 1/4 UN1339.

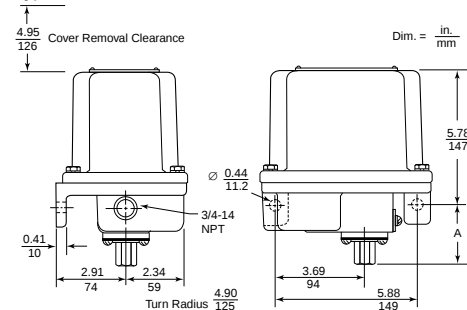
Table 22.59: Dimension A for G•W Switches

Type	Dimension A, in. (mm)
GAW, GDW, GKW 2, 4, 5, 6 22, 24, 25, 26, 52, 54, 55, 56	2.33 (59)
GBW, GEW, GLW 1, 2, 21, 22, 51, 52	2.23 (57)
GCW, GFW, GMW 1, 2, 3, 4 21, 22, 23, 24, 51, 52, 53, 54	3.15 (80)

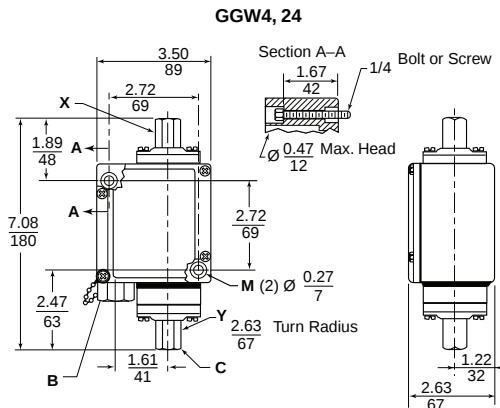
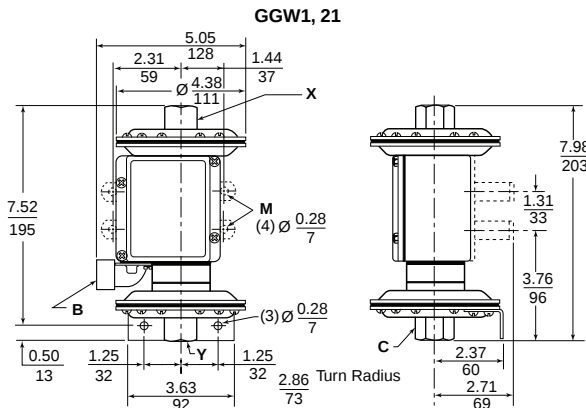
Table 22.60: Dimension A for G•R, Switches

Type / Tipo / Type	Dimension A, in. (mm)
GAR1, 2, 21, 22	2.02 (51.3)
GAR4, 5, 6, 24, 25, 26	1.42 (36.1)
GBR1, 2, 21, 22; GCR1, 21	1.32 (33.5)
GCR2, 3, 4, 22, 23, 24	2.24 (56.9)
GDR1, 2, 21, 22	2.02 (51.3)
GDR4, 5, 6, 24, 25, 26	1.42 (36.1)
GER1, 2, 21, 22; GFR1, 21	1.32 (33.5)
GFR2, 3, 4, 22, 23, 24	2.24 (56.9)

Types GAR, GBR, GCR, GDR, GER, and GFR



Dimensions 9012G Dimensions, in. (mm)

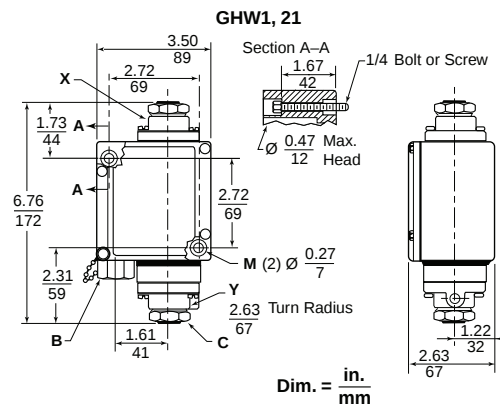
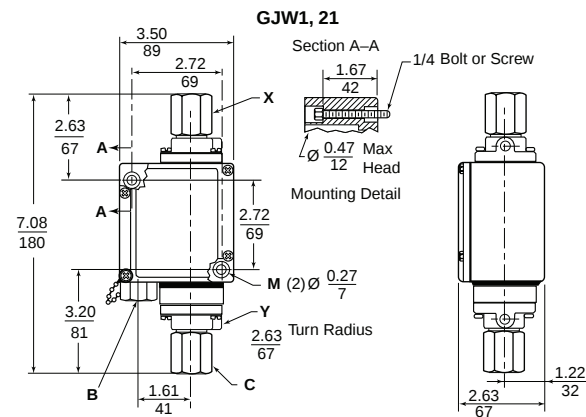


B = Conduit
Standard = 1/2-14 NPT
Options = Pg 13.5, 20 mm

C = Fluid Connection
Standard = 1/4-18 NPTF
Options = G 1/4

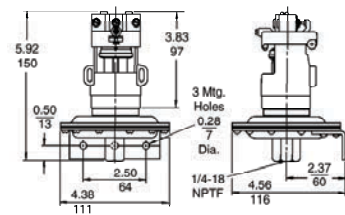
X = Lower pressure source

Y = Higher pressure source

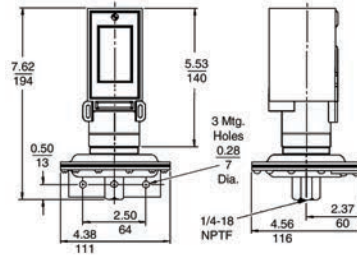


Dim. = in.
mm

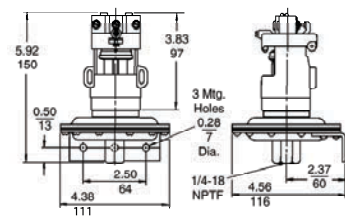
9012GNO1, GRO1



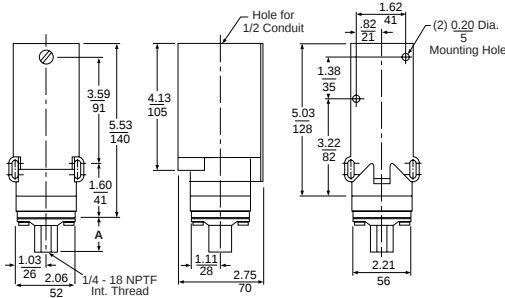
9012GNG1, GRG1



9012GNO, GRO



9012GNG, GRG



Type	Dimension A, in. (mm)
GNO, GRO 3, 4, 5, 6	1.41 (35.8)
GPO, GSO 1, 2, 3	1.31 (33.3)
GQO, GTO 1, 2, 3, 4	2.24 (56.9)

Type	Dimension A, in. (mm)
GNG, GRG 3, 4, 5, 6	1.41 (35.8)
GPG, GSG 1, 2, 3	1.31 (33.3)
GQG, GTG 1, 2, 3, 4	2.24 (56.9)

Factory Modifications and Accessories

Table 22.61: Factory Modifications for Class 9012 Pressure Switches

Modification	Applies to Pressure Switch Type	Form
Lock on rising pressure, manual reset only	Available on GDW, GDWM, GEW, GEWM, GFW, GFWM only	E3
120 Vac or Vdc neon pilot light	Available on all GAW–GMW, GAWM–GFWM	with clear lens G17 with red lens G18 with clear lens G21 with red lens G22
24 Vdc only LED	For pilot light conversion kits: See 9998 PC-306–308. Complete Class and Type information required	G23
24 Vdc LED pilot light with green lens	Class 9012 GAW–GMW and GAWM–GFWM, or Class 9016 GAW and Class 9025G	H3
SPDT snap switch rated 1.1 A at 125 Vdc (minimum differential doubles)	Available on GAR–GFR, GAW–GJW, GAWM–GFWM	H10 or H11
Prewired 5-pin Brad Harrison male receptacle #41310 or interchangeable Crouse-Hinds receptacle. For use with Brad Harrison female portable plug #41306, 41307, 41308, or equivalent.	Available on GAW–GJW single pole devices only	H17
Micro connector, 4-pin, for 24 Vdc pilot light	G•W (single pole only), except GAW2 and Form B2.	K
External range adjustment (includes knob and range scale window)	GAW–GFW, GAWM–GFWM, GKW–GMW	K1
External range adjustment slotted for screwdriver (includes range scale window)	GAW–GFW, GAWM–GFWM, GKW–GMW	M12
Pg 13.5 conduit thread and 1/4–19 BSP pressure connection	G•WM only	Q1
Standard Nitrile (Buna-N) diaphragm in #316 stainless steel flange	Not available on Types 1 and 21. Available on all other GAR, GAW, GBR, GBW, GDR, GDW, GER, GEW, GAWM, GBWM, GDWM, GEWM, GGW, GHW, GKW, and GLW switches.	Q4
Viton® fluorocarbon diaphragm in #316 stainless steel flange	Not available on Types 1 and 21. Available on all other GAR, GAW, GBR, GBW, GDR, GDW, GER, GEW, GAWM, GBWM, GDWM, GEWM, GGW, GHW, GKW, and GLW switches.	V1
Range scale window (standard with Forms K and K1)	GAW–GMW, GAWM–GFWM	Y1
Special setting specified (If indicating only a fixed differential setting, specify whether this setting is on increasing or decreasing pressure.)	All 9012G	Z
1/4"-18 NPT external thread pressure connection	GAR, GAW, GDR, GDW, GGW, GKW Not available in combination with Forms Q1, Q3, Q4.	Z16
1/2"-14 NPT external thread, 1/4"-18 NPTF internal thread pressure connection	GAR, GAW, GDR, GDW, GGW, GKW Not available in combination with Forms Q1, Q3, Q4.	Z18
7/16"-20 UNF-2B internal thread pressure connection	GAR–GFR; GAW–GMW Not available in combination with Forms Q1, Q3, Q4.	

Table 22.62: Factory Modifications for Renewal Parts Kits for Class 9012 Pressure Switches

Suffixes for renewal parts kits, see page 22-34

Modification	Applies to Parts Kit Type	Form
SPDT snap switch rated 1.1 A at 125 Vdc (minimum differential doubles)	9998PC313	H3
Standard Nitrile (Buna-N) diaphragm in #316 stainless steel flange	9998PC177–179, 268, 269 9998PC265–267	Q1
Viton® fluorocarbon diaphragm in #316 stainless steel flange	9998PC177–178, 268, 269 9998PC265–267	Q4
1/4"-18 NPT external thread pressure connection	9998PC265–269	Z
1/2"-14 NPT external thread, 1/4"-18 NPTF internal thread pressure connection	9998PC265–269	Z16
7/16"-20 UNF-2B internal thread pressure connection	9998PC177, 178, 265–273	Z18

Table 22.63: Class 9049 Accessories for Class 9012 Pressure Switches

Description	Applies to Class	Type
Stainless steel surge reducer for use on oils, coolants, and hydraulic fluids (not recommended for air or water)	9012G	9049A26S