Approvals:

ABS TYPE APPROVED PRODUCT

TD0400TJ
工電(2012)第00320號
(ITRI)2017第07-00075號

Ex II 2 G D CE 0539

c UL us LISTED — GYB25.1444X

Switches with UL & CSA Recognized and File No. E12252.

Patent No.
M295332
M334932
China: 920135

VACUUM SWITCH EXPLOSION PROOF TYPE PS1000X

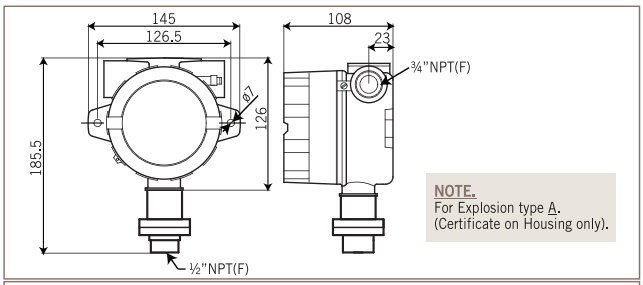
Explosion Proof Type / Protection: IP68
Proof Pressure to 1000 psi
Adjustable Range: -25 ~ -760 mmHg
Temperature: -5°C ~ +150°C [When the operating temperature exceeds 120°C, a cooling element (New-Flow's CF or CT series) must be installed!]

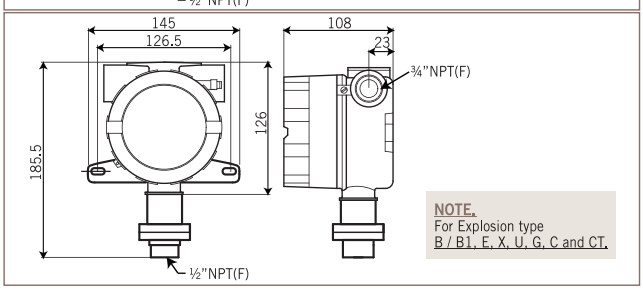
The New-Flow PS1000X, an explosion proof vacuum switch, is designed to be used in control systems. PS1000X has high set point repeatability and norrow dead band features. Easily adjusted to the set point, no special tools needed!

Technical Data

Switch Data: one SPDT & two SPDT Microswitch,15amps 125/250VAC, DC 125V 0.4A, DC 30V 3A, / Gold Contact Microswitch 1A 125/250VAC, / Hermetically Sealed Switch 5A/250VAC
Housing: die cast aluminum alloy with paint, and SS316 available
Conduit Connection: Female ¾", ½"NPT, M20 x P1.5 available
Pressure Element: Diaphragm
Process Material: Wetted parts– SS316/SS316L; O-ring– Viton
Process Connection: Female ½" or ¼" NPT, BSP, PT, M20 x P1.5 thread available
Repeatability: ±1% of full scale

Dimensions-mm





Range Table

Code	Adjustable Range	Dead Band	Maximum Pressure Proof
1R	-25 ~ -760 mmHg	10~20 mmHg	1000 psi

Ordering Information

PS1000X — Code

1R — Range: -25 ~ -760 mmHg

Code	Wetted Parts Material
A	SS316 / SS316L

Code	Process Connection- Female
	(1) ½"NPT **(2)** ¼"NPT **(3)** ½"BSP **(4)** ¼"BSP **(5)** ½"PT **(6)** ¼"PT **(7)** M20 x P1.5

Code	Conduit Connection
	(E) ¾"NPT Female, standard **(F)** ½"NPT Female **(G)** M20 x P1.5 Female

Code	Switch Form	Code	Switch Form
1	Micro Switch, 1 SPDT	2	Micro Switch, 2 SPDT (one setting point)
3a	Gold Contact, 1 SPDT	3b	Gold Contact, 2 SPDT (one setting point)
4a	Hermetically Switch, 1 SPDT	4b	Hermetically Switch, 2 SPDT (one setting point)

Code	Explosion Proof Type / Housing Material
A	***Certificate on Housing Only (FM Approval) / Aluminum alloy:*** Class I, Groups A, B, C & D; Class II, Groups E, F & G; Class III; NEMA 4X
B / B1	***Taiwan Explosion Proof Certification / (B) Aluminum alloy (B1) SS316:*** Ex d IIB + H_2 T6 Gb
E	***International IECEx Certification / Aluminum alloy:*** Ex db IIB + H_2 T6 Gb; Ex tb IIIC T85°C Db
X	***Europe Union ATEX Certification / Aluminum alloy:*** II 2 G D Ex db IIB + H_2 T6 Gb Ex tb IIIC T85°C Db
U	***UL Certification / Aluminum alloy:*** Class I, Division 1, Groups A, B, C & D; Class II, Division 1, Groups E, F & G
G	***China Explosion Proof Certification / Aluminum alloy:*** Ex d IIB + H_2 T6 Gb; Ex tD A21 IP6X T85°C
C	***International IECEx Certification & Europe Union ATEX Certification / Aluminum alloy:*** IECEx & ATEX (Ex II 2 G D) Certificate Ex db IIC T6...T5 Gb T6 (-20°C ≤ Ta ≤ +55°C) T5 (-20°C ≤ Ta ≤ +60°C) Ex tb IIIC T80°C...T88°C Db T80°C (-20°C ≤ Ta ≤ +55°C) T88°C (-20°C ≤ Ta ≤ +60°C)
CT	***Taiwan Explosion Proof Certification / Aluminum alloy*** Ex db IIC T6...T5 Gb T6 (-20°C ≤ Ta ≤ +55°C) T5 (-20°C ≤ Ta ≤ +60°C) Ex tb IIIC T80°C...T88°C Db T80°C (-20°C ≤ Ta ≤ +55°C) T88°C (-20°C ≤ Ta ≤ +60°C)

PS1000X							Complete Ordering Code