

differential pressure switches ATEX flameproof enclosure



PED 2014/68/EU



II 2 GD Ex db IIC T6 Ex tb IIIC T85°C

Certificate :
0425 ATEX 2634

These flameproof electrical apparatus comply with European Directive ATEX 2014/34/EU, for group II and category 2 GD. They are suitable for a variety of uses in hazardous zones 1, 2, 21 and 22 in which the use of flameproof instrument is required. The sensing element is a metallic diaphragm with 2 metallic bellows and acts directly on the microswitch through a self-centering pivot. The simplicity of the design, without levers, cams or similar mechanisms, gives the unit an exceptionally long working life.

3.49 - Standard Model

Type of ignition protection as per EN 60079-0 and EN 60079-1:
Ex db IIC T6 Ex tb IIIC T85°C.

Protection: IP 65 as per IEC 529.

Ranges: 0...250 mbar/0...600 mbar.

Electrical specifications: N. 1...2 SPDT microswitches, or N. 1 with adjustable differential. (see microswitches table)

Differential: fixed.

Repeatability: ≤ 1% of the full setting value.

Set-point adjustment: internal, micrometric adjustable.

Earth contacts: N. 1 internal, N. 1 external.

Process fluid temperature: -4...+140°F (-20...+60 °C).

Ambient temperature: -4...+149°F (-20...+65 °C).

Thermal drift: ≤ 0,027% / °F (≤ 0,05% / °C).

Process connection: AISI 316 st.st.

Elastic element: AISI 316 st.st. diaphragm with N. 2 AISI 316 Ti bellows; VITON gasket.

Case: aluminium, blue polyurethane painted.

Cover: aluminium, beige polyurethane painted.

Tag: AISI 304 st.st., silk-screen painted.

Tell-tale vents: polypropylene.

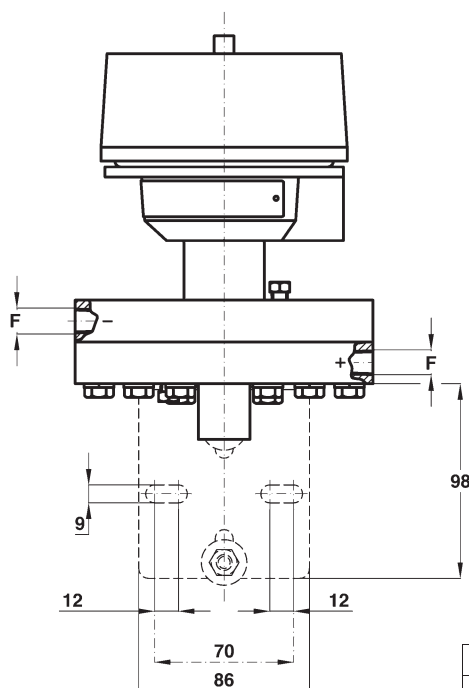
Flushing plugs: AISI 316 st.st.

Weight: 14.77 lbs (6,7 kg).

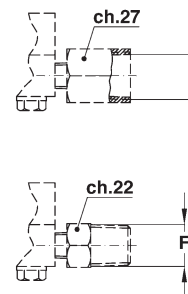
Setting ranges	One side static pressure	Both side static pressure	Differential 1 micro (1)	Differential 2 micro (1)
20...250 mbar	2,5 bar	4 bar	10 mbar	15 mbar
25...400 mbar	4 bar	4 bar	16 mbar	20 mbar
35...600 mbar	4 bar	4 bar	20 mbar	30 mbar

(1) differential and minimum set-point values for microswitches cod. I, L, N, R, S, T, U, V are 300% of those shown in table.

3.49



F1
1 - R 1/2-ISO 7/1
2 - R 3/4-ISO 7/1
3 - 1/2-14 NPT
4 - 3/4-14 NPT
A - M20 x 1,5



F
21F - G 1/4
23F - 1/4-18 NPT
43F - 1/2-14 NPT
43M - 1/2-14 NPT M

Single / Double	Type	250 Vac	125 Vac	24 Vdc
C/D	std.	15A	15A	0,1A
G/H	SPLASH	15A	15A	0,1A
I / L	goldplated		1A	0,1A
M/ P	inert gas filled	15A	15A	0,1A
N/R	goldplated and inert gas filled		1A	0,1A
S /T	SPLASH VDC	15A	15A	2A
U/V	inert gas filled VDC	15A	15A	2A

2D2

