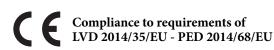




# pressure gauges with electric contacts all stainless steel construction DS 4" (100mm)







They are used to control the electrical operation of compressors, pumps, presses, hydraulic and pneumatics equipment, chemical and petrochemical plant. The contacts open or close the circuit depending on the position of the indicating pointer and they are adjustable over the whole range. For application on severe working conditions, such as rapid and frequent pressure change, vibration and pulsation, they are manufactured with the case liquid filled. The filling drastically reduces the effect of such factors as well as those caused by a corrosive atmosphere, giving longer life and better performances of the pressure gauge and their electric contacts. They are also available with inductive contacts intrinsecally safe.

#### 1.M2.1 - Standard Model

**Ranges:** *from 0...15 to 0...20000 psi* (from 0...1 to 0...1600 bar or equivalent units).

**Mechanical contact:** sliding contact, magnetic snap-action, electronic, inductive.

Accuracy:  $\pm$  1,0% as per EN 837-1 - DIN 16085 (1). Ambient temperature: -13...+149 °F (-25...+65 °C). Process fluid temperature: max +212 °F (+100 °C). Working pressure: max 75% of the full scale value.

Over pressure: not suitable.

Protection: IP 55 as per EN 60529/IEC 529.

**Socket material:** AISI 316L st.st. **Elastic element:** AISI 316L st.st.

Case: stainless steel.

Ring: stainless steel, bayonet lock.

Window: plastic.

Movement: stainless steel.

**Dial:** aluminium, white with black markings. **Pointer:** not adjustable, aluminium, black.

# 1.M2.3 - Filled Model

Mechanical contact: magnetic snap-action, electronic, inductive.

Accuracy:  $\pm$  1,6% as per EN 837-1 - DIN 16085 (1). Process fluid temperature:  $max + 149 \,^{\circ}F$  (+65  $^{\circ}C$ ).

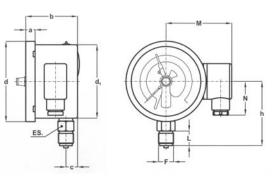
Filling liquid: silicon oil.

**Protection:** IP 65 as per EN 60529/IEC 529. **Other features:** as Standard Model.

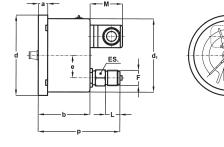
(1) The addition of mechanical electric contacts affects the accuracy of instruments such that 1% becomes 1,5%, 1,6% becomes 2,4% etc. (add the 50% of accuracy; if the contact is of the magnetically assisted type, this value can't be added within the ±5% of setting point).



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D - BACK CONNECTION

Mounting	F	a	b (1)	с	d	d <sub>1</sub>	e	h	p (1)	N	L	ch	Weight (2)
Lower	41M			0.63"				3.48"		1.81"			
	G 1/2 A	0.51"	2.81"- 3.24"	(16.1)	4.35"	3.97"		(88,5)		(46)	0.78"	0.86"	1.54 lbs
Back	43M	(13)	(71,5 - 82,5)		(110,6)	(101)	1.22"		4.44" - 4.87"		(20)	(22)	(0.7  kg)
	1/2-14 NPT						(31)		(112,9 - 123,9)				

dimensions: inches (mm)

## **CONTACT TYPE (1)**

MODEL		Standard		Filled			
Contact type		Sliding contact, electr	ronic	Magnetic snap-action contact, electronic			
Contact number	1	2	2 indipendent	1	2	2 indipendent	
Junction box	3 poles + GND	3 poles + GND	6 poles + GND	6 poles + GND	6 poles + GND	6 poles + GND	
ø exit cables: inches (mm)	0,230,35 (69)	0,230,35 (69)	0,270,51 (713)	0,270,51 (713)	0,270,51 (713)	0,270,51 (713)	
Minimum range	15 psi (1bar)	23 psi (1,6 bar)	23 psi (1,6 bar)	23 psi (1,6 bar)	36 psi (2,5 bar)	36 psi (2,5 bar)	

<sup>(1)</sup> Functional characteristics, electric diagrams and contact types are available on data-sheets :

### **OPTIONS**

	ATEX version, with intrinsic safety inductive contact (1)
<b>C</b> -	Back flange, for lower connection pressure gauges
E -	Front flange, for back connection pressure gauges
E65 -	Protection IP 65 as per IEC 529, for standard model

<sup>(1)</sup> See ATEX data-sheet for technical details

# "HOW TO ORDER" SEQUENCE

Section / Model /Case / Mounting / Diameter / Range / Process connection / Electric contact / Options

41M M2 01S...M9D C, E 1 1 A E 3 D 43M E1...B22 E65

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<sup>(1)</sup> dimensions for single/double contact; (2) when filled, add 0.77 lbs (0,35 kg) for single contact and 0.88 lbs (0,4 kg) for double contact

<sup>&</sup>quot;ELECTRIC CONTACTS", "ELECTRONIC CONTACTS"