



bourdon tube pressure gauges NACE MR0175/ISO15156-3 version DS 4", 6" (100-150mm)









PED 2014/68/UE ATEX 2014/34/UE

These instruments are designed for petrochemical industry. They are built to resist to the most severe conditions created by H₂S and by the environment. The quality of the materials used to build the sensible element allows their use with high frequency pulsating pressures. The TIG welding between the case and the process socket, strengthens the instrument and assures a better tight in case of dampening fluid. The advantages of filling the case of the instrument with a dampening fluid are: reduced pointer fluctuation, reduced wear of rotating parts of the movement when pulsant vibrations and pulsations occur. Moreover condensation and corrosive atmospheres which could damage the internal

1.37.1 - Standard Model

Design: EN 837-1.

Safety designation: S1 as per EN 837-2. **Ranges:** *from* -30...0 *INHG to* 0...6000 *psi* (from -1...0 to 0...400 bar or equivalent units).

Accuracy class: 1 as per EN 837-1.

Ambient temperature: -13...+149 °F (-25...+65 °C). Process fluid temperature: -40...+212 °F (-40...+100 °C).

Working pressure:

100% of FSV for static pressure; 90% of FSV for pulsating pressure.

Over pressure limit:

30% of FSV, max 6500 psi - 450 bar (max 12 hours).

Special overpressure (upon request):

 $1000 \ psi$ (60 bar) for pressure > $15 \ psi$ (1 bar) ... $\leq 150 \ psi$ (10 bar); $3500 \ psi$ (250 bar) for pressure > $150 \ psi$ (10 bar) ... $\leq 1500 \ psi$ (100 bar); $6500 \ psi$ (450 bar) for pressure > $1500 \ psi$ (100 bar) ... $\leq 6000 \ psi$ (400 bar).

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

Bourdon tube: AISI 316L st.st.

Diaphragm seal filling fluid: silicone oil.

Wetted parts: Hastelloy C276.

Leak test: Helium Test leak Search (max 1x10⁻⁶ mbar x l x s⁻¹)

Case: stainless steel.

Ring: stainless steel, bayonet lock.

Window: tempered glass.

Movement: stainless steel with internal limit stops for minimum and

maximum pressure.

Dial: aluminium, white with black markings. **Pointer:** adjustable, aluminium, black.

1.37.2 - Fillable Model

Protection degree: IP 67 as per EN 60529/IEC 529.

Other features: as Standard Model.

1.37.3 - Filled Model

Pressure gauges damping liquid:

glycerine 98%, silicon oil or fluorinated fluid.

Ambient temperature:

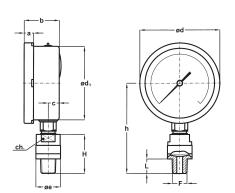
+32...+149 °F (0...+65 °C) with glycerine filling; -40...+149 °F (-40...+65 °C) with silicon oil filling; -40...+149 °F (-40...+65 °C) with fluorinated fluid filling. **Process fluid temperature:** $\max +212$ °F (+100 °C).

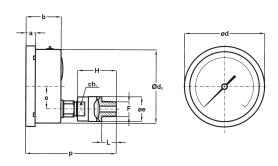
Protection degree: IP 67 as per EN 60529/IEC 529.

Other features: as Standard Model.



NACE MR0175/ISO 15156-3 version, DS4", 6" (100-150mm)





A - LOWER CONNECTION

D - BACK CONNECTION

DS	Ranges	F	a	b	с	ø d	ød ₁	e	øe	h	Н	L	p	ch	Weigth (1)
TC.	≤ 160 psi								2.24"						
E 4"	(≤ 10 bar)	43M	0.51"	1.91"	0.59"	4.35"	3.97"	1.22"	(57)	4.86"			4.94"		2.18 lbs
	> 160 psi	1/2-14 NPT	(13)	(48,5)	(15)	(110,6)	(101)	(31)	1.34"	(123,5)			(125,5)		(0,99 kg)
(100)	(> 10 bar)								(34)		2.12"	0.78"		1.06"	
	≤ 160 psi								2.24"		(54)	(20)		(27)	
G 6"	(≤ 10 bar)	43M	0.59"	1.99"	0.61"	6.33"	5.88"	1.22"	(57)	6.12"			4.88"		3.26 lbs
	> 160 psi	1/2-14 NPT	(15)	(50,5)	(15,5)	(161)	(149,6)	(31)	1.34"	(155,5)			(124)		(1,48 kg)
(150)	(> 10 bar)								(34)						

OPTIONS

						standard	fillable	filled
E - I	Front flange	, for ba	ck connecti	ion pressure gauges		•	•	•
2G1 -	ATEX II 2G	c versi	on			See	the ATEX pressure gauge	s
2D1	ATEX II 2G	D c ver	sion			data	sheet for technical detail	ls
C 40 - A	AISI 316L ca	ase and	ring		•	•	•	
E 75 - 1	NACE MR0	175/ISC	O 15156-3 c	certificate	•	•	•	
P02 - Oxygen service						•	♦ (1)	◆ (2)
P01 - S	Suitable for	filling w	vith silicone	e / fluorinated fluid			•	
S10 - S	Silicone filli	ng					•	
F30 - F	Fluorinated	fluid fil	ling				•	
SPS - Special overpressure						•	•	*
ГО1 - Tropicalization						•	•	•
Γ32 - S	Safety glass	window	7		•	•	•	
			ments suita	able for fluorinated f	luid filling	(2) to be ordered with fluoring	ated fluid filled instrumer	ats
	/ Model / C	Case / I	Mounting ,	/ Diameter / Ranş	ge / Process connect	ion / Options		
Section /	Model / C			-		E		
Section /	37	1	A	\mathbf{E}	43M	E		
		1 2 3	A D	E G	43M	2G12D1 C40T32		

"HOW TO ORDER" SEQUENCE

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