

sanitary pressure gauges

DS 2.5", 4" (63-100mm)



74-06

Autorization NO. 1599



These instruments are designed for the sanitary, food processing, and pharmaceutical industries, in compliance with standard No. 74-06 of 3-A (Sanitary Standards Symbol Administrative Council). The absence of interstices and the mirror finish of the components ensure the highest level of hygiene. The assembly between the pressure gauge and the diaphragm seal minimizes internal volumes and reduces temperature-related errors.

1.SP.2 - Liquid fillable

Design: 74-06 SSI; ASME B40.1

Ranges: from 0...15 psi to 0...600 psi; (from 0...1 bar to 0...40 bar or equivalent units).

Accuracy: grade A as per ASME B40.1 (2-1-2%) for DS 4" (100mm); grade B as per ASME B40.1 (3-2-3%) for DS 2.5" (63mm);

Ambient temperature: -13...+149 °F (-25...+65 °C).

Process temperature: -4...+212 °F (-20...+100 °C).

Max 284°F (140 °C) for 30 minutes during cleaning stage (C.I.P.)¹ and sterilization (S.I.P.)².

Working pressure (referred to the full scale value): max 75%.

Over pressure limit: not available.

Seal fill: mineral oil (FDA approved) for food service.

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

Process connection: AISI 316L st.st. with Ra ≤ 0,76 µm finish (welded parts included), as per ASME BPE SF3.

Diaphragm: AISI 316L st.st. .

Welding: AISI 316L TIG.

Case: electro polished AISI 304 st.st.

Ring: polished AISI 304 st.st., crimped.

Window: plastic on DS 2.5" (63mm); tempered glass on DS 4" (100 mm).

Dial: aluminium, white with black markings.

Pointer: aluminium black anodized.

1.SP.3 - Liquid filled

Case fill: glycerine 99,5% (USP, E.P. e F.U.) for food service.

Ambient temperature: +32...+149 °F (0...+65 °C).

Other features: as standard model.

1.SP.2.A.E.ATV - Autoclavable

This version can be autoclaved and sterilized at a max temperature of 304°F (150 °C) for 1 hour.

Window: Polysulfone.

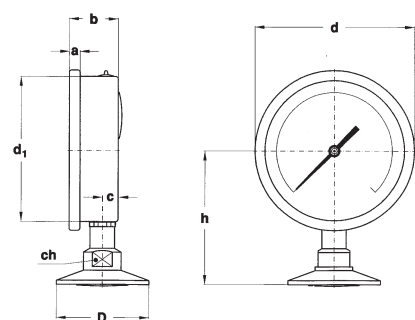
Gasket: silicon rubber.

Blow out vent and filling plug: VITON.

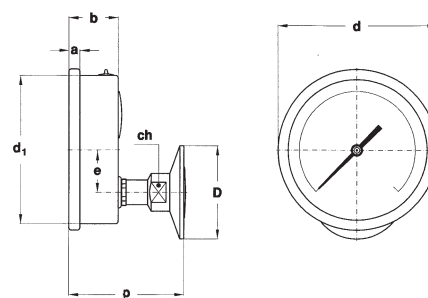
Other features: as standard model.

1) C.I.P. = Cleaned In Place

2) S.I.P. = Steamed In Place - available for ranges > 1bar when steam pressure does not exceed the max admissible pressure on the connected instrument



A - LOWER CONNECTION

D - BACK CONNECTION,
FOR DS 4" (100mm) ONLY

DS	AT- 1 1/2"	BT- 2"	a	b	c	d	d ₁	e	h	p	ch	Weight (1)
C 2.5" (63 mm)	1.98"	2.51"	0.21"	1.10"	0.39"	2.67"	2.46"		3.11"		0.86"	0.61 lbs
E 4" (100 mm)	1.98"	2.51"	0.29"	1.33"	0.43"	4.33"	0.39"	0.73"	3.50"	2.99"	0.86"	0.92 lbs

(dimensioni : inches)

(1) add 0.26 lbs (0,12 kg) for DS 2.5" (63 mm) and 0.66 lbs (0,30 kg) for DS 4" (100 mm), when filled

RANGES - "C" = DS 2.5" (63mm); "E" = DS 4" (100mm).

PRESSURE

TAB. 1

RANGE	bar
0...1 (1)	E
0...1,6 (1)	E
0...2,5	C-E
0...4	C-E
0...6	C-E
0...10	C-E
0...16	C-E
0...25	C-E
0...40	C-E

TAB. 2

RANGE	psi ext. bar int.
0...15 (1)	E
0...30	C-E
0...60	C-E
0...100	C-E
0...160	C-E
0...200	C-E
0...300	C-E
0...400	C-E
0...600	C-E

VACUUM & COMPOUND

TAB. 3

RANGE	bar
-1...0 (1)	E
-1...0,6 (1)	E
-1...1,5	C-E
-1...3	C-E
-1...5	C-E
-1...9	C-E
-1...15	C-E

TAB. 4

RANGE (2)	psi ext. bar int.
-30...0 (1)	E
-30...15 (1)	E
-30...30	C-E
-30...60	C-E
-30...100	C-E
-30...150	C-E
-30...300	C-E

(1) available only for 2" CLAMP connection

(2) vacuum unit of measurement: "inHg"

(1) available only for 2" CLAMP connection

FINISHING

0 - Ra ≤ 0,76 μm, as per ASME BPE SF1	(1)
A - Ra ≤ 0,51 μm, as per ASME BPE SF1	(1)
B - Ra ≤ 0,38 μm, as per ASME BPE SF4 - electropolished	(1)

(1) welded parts included

OPTIONS

K16 - Accuracy ± 1,6%
TPC - Polycarbonate window

"HOW TO ORDER" SEQUENCE

Section / Model / Case / Mounting / Diameter / Special Version / Range / Process connection / Finishing / Options

1 SP 2 A C ATV AT- 0 K16...TPC
3 D E BT- A B