

Type 1082 Test Gauge



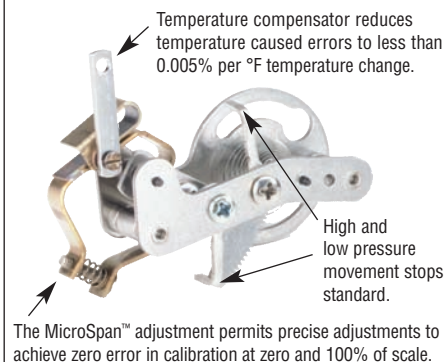
TYPE 1082

FEATURES

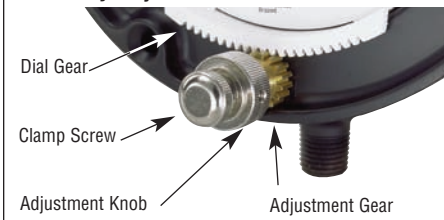
- *Externally adjustable dial (standard case)*
- *White aluminum dial, black numbers with polished mirror band*
- *Temperature-compensated movement significantly reduces temperature error*
- *MicroSpan™ adjustment for ease in span calibration*
- *Hydraulically staked movement with Teflon-coated gears and bearings improves stability*

The standard Ashcroft® test gauge case style features a solid-front aluminum case with a hinged ring. The dial has a polished mirror band for pointer reflection to prevent parallax error and is available in 4½", 6" and 8½" dial sizes in both lower and back connection. Pointer is a balanced-friction adjustable design with red knife edge tip for easy reading. Optional aluminum or phenol cases are also available.

Temperature Compensated Movement



Externally Adjustable Dial



SPECIFICATIONS

Model Number:	1082
Accuracy:	0.25/ASME B40.100, Grade 3A
Ranges:	Vac., compound, 10,000 psi
Dial Size:	4½" 6" 8½"
Case Material:	Aluminum, solid front, black epoxy coated
Ring:	Hinged steel, black wrinkle finish
Tube and Socket Material:	– (A) Phosphor bronze tube, brass socket – (P) Monel tube and socket
Movement:	400 Series SS rotary design, Teflon ⁽¹⁾ S coated bearings, Micrometer span adjustment, Bimetallic temp. compensator (.005%/per °F max. temp. error)
Connection Location:	Lower or back for flush mounting ⁽²⁾
Connection Size:	¼ or ½ NPT
Window Material:	Glass
Pointer:	Black-painted aluminum with red-painted, knife-edge tip
Dial:	Externally adjustable aluminum, black numerals with polished mirror band
Weather Proof:	No

OPTIONS

Acrylic window: **XPD**
 Safety glass window: **XSG**
 Throttling devices: **XTS**
 Carrying handle: **XCH**
 Carrying case: **2505**
 Aluminum case, threaded ring: **XAY⁽³⁾**
 Phenol case, threaded ring: **XTY⁽³⁾**

(1) Registered TM of DuPont Co.

(2) Cases supplied with studs for flush mounting.

(3) Not available with externally adjustable dial. Lower connect only.

HOW TO ORDER:

From Table A, Dial Size: 4½" : **45** **1082** **P*** **02L** **XXX** **0/2,000 psi**
 From Table A, Case Type Number: 1082
 From Table B, Bourdon tube and socket:
 From Table B, Connection: ¼ NPT (02), ½ NPT (04), Lower (L), Back (B)
 From Optional Features:
 From Range Table: 2000 psi

(*) "S" denotes solid front case design

Type 1082 Test Gauge

STANDARD RANGES

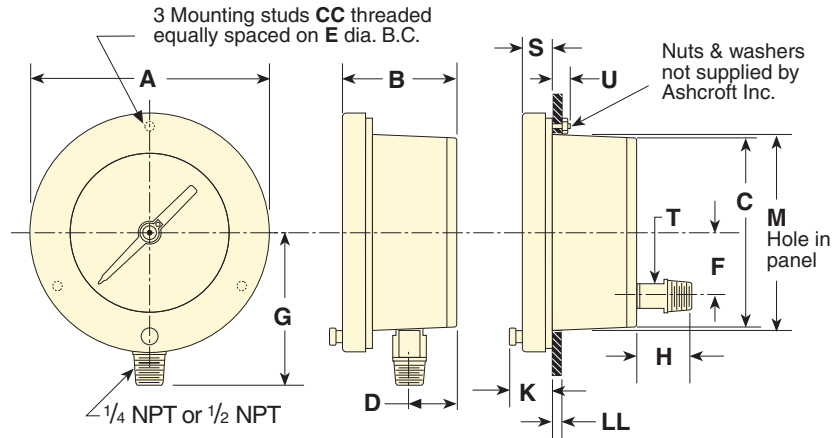
psi	Minor Graduations		
	4½"	6"	8½"
Pressure			
0/15	0.05	0.05	0.02
0/30	0.1	0.1	0.05
0/60	0.2	0.2	0.1
0/100	0.5	0.2	0.2
0/150	0.5	0.5	0.2
0/200	0.5	0.5	0.5
0/300	1	1	0.5
0/400	1	1	1
0/600	2	2	1
0/800	2	2	2
0/1000	5	2	2
0/1500	5	5	2
0/2000	10	5	5
0/3000	10	10	5
0/5000	20	10	10
0/10,000	50	20	20
Vacuum			
30 in.Hg/0	0.1	0.1	0.05
Compound			
Hg/psi	Vac.	Pres.	Vac.
30/0/15	0.2	0.1	0.1
30/0/30	0.5	0.2	0.1
30/0/60	0.5	0.2	0.5
30/0/100	1	0.5	0.5
30/0/150	1	0.5	1
30/0/200	2	1	1
30/0/300	2	1	1
30/0/400	5	2	1

Vacuum			
30 in.Hg/0	0.1	0.1	0.05
Compound			
Hg/psi	Vac.	Pres.	Vac.
30/0/15	0.2	0.1	0.1
30/0/30	0.5	0.2	0.1
30/0/60	0.5	0.2	0.5
30/0/100	1	0.5	0.5
30/0/150	1	0.5	1
30/0/200	2	1	1
30/0/300	2	1	1
30/0/400	5	2	1

STANDARD RANGES

kg/cm2 – bar	kPa
Pressure	
0/1	0/100
0/1.6	0/160
0/2.5	0/250
0/4	0/400
0/6	0/600
0/10	0/1000
0/16	0/1600
0/25	0/2500
0/40	0/4000
0/60	0/6000
0/100	0/10,000
0/160	0/16,000
0/250	0/25,000
0/400	0/40,000
0/600	0/60,000
0/10,000	
Vacuum	
-1/0	-100/0
Compound	
-1/1.5	-100/150
-1/3	-100/300
-1/5	-100/500
-1/9	-100/900

DIMENSIONS



Model	Dial Size Inches	A	B	C	D	E	F	G	H	K	M	S	T	U	CC	LL
1082	4½"	6½ ₃₂ (155)				5% (137)		3½ ₁₆ (100)			4% (124)				#10-24	
	6"	7% ₁₆ (192)	2% (73)	4% (121)	1% (30)	7 (178)	1% (41)	4½ (114)	1% (35)	1½ ₃₂ (34)	6% (165)	% (16)	% (16)	% (19)	¼-20	¾ to 1½ (3) (13)
	8½"	10% ₁₆ (257)				9% (244)		6 (152)			9 (229)				¼-20	

*Millimeters shown in ().

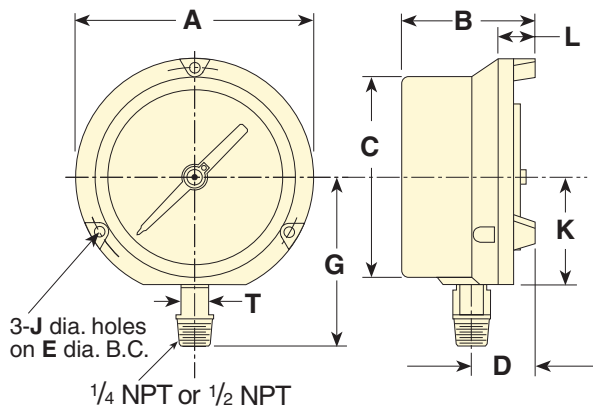
Table A - Case selection & mounting						
Dial Size (in)	Ordering Code	Case Type	Case: Material Finish	Ring: Style Material Finish	Mounting / Connection	
4½ 6 8½	(45) (60) (85)	1082	Aluminum, Black, epoxy Coated	Hinged Steel Wrinkle finish	Stem – Flush –	Lower or back Lower ⁽¹⁾ or back

Table B - System Location and Connection Bourdon Tube & Tip Material		Socket Material	Tube & Socket Code	Case Style Code	NPT Conn. & Code	Conn. Location & Code	Range Selection Limits (psi)
(all joints TIG welded except code "A")							
Phosphor bronze tube, Brass tip, silver brazed		Brass	(A)-Tube	(S) Solid Front	(02) ½	Lower (L)	Vac./400
Monel 400		Monel 400	(P)	(S) Solid Front	(04) ½	Back (B)	Vac./10,000

NOTES: (1) Standard case only.

Type 1082 Test Gauge – XAY, XTY Case Options

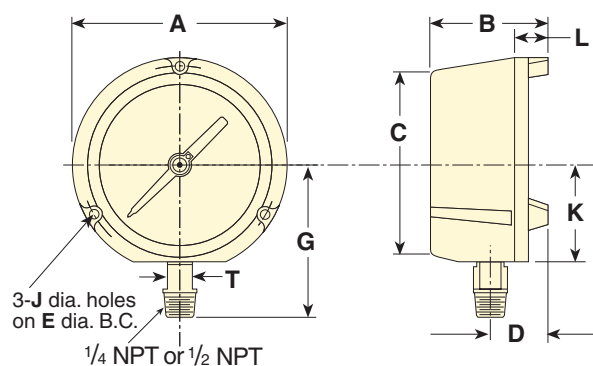
XAY DIMENSIONS



Model	Dial Size Inches	A	B	C	D	E	G	J	K	L	T
1082 XAY	4 1/2"	5 13/16 (143)	3 1/16 (87)	4 7/8 (124)	1 1/8 (41)	5 5/8 (137)	3 11/16 (94)	.218	2 5/8 (67)	1 1/8 (27)	5/8 (16)
	6"	7 7/8 (194)	3 1/2 (89)	6 3/8 (162)	1 1/8 (41)	7 (178)	4 13/16 (113)	.218	2 5/8 (67)	1 1/8 (27)	5/8 (16)

*Millimeters shown in ().

XTY DIMENSIONS



Model	Dial Size Inches	A	B	C	D	E	G	J	K	L	T
1082 XTY	4 1/2"	5 13/16 (143)	3 1/16 (87)	4 7/8 (124)	1 1/8 (41)	5 5/8 (137)	3 11/16 (94)	.218	2 5/8 (67)	1 1/8 (27)	5/8 (16)

*Millimeters shown in ().

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