

Type 1082 Test Gauge

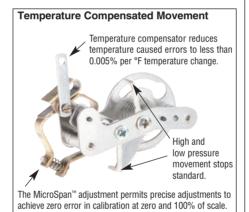


TYPE 1082

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 $4\frac{1}{2}$, 6° and $8\frac{1}{2}$ 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.





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

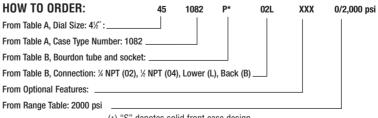
OPTIONS

Acrylic window: XPD Safety glass window: XSG Throttling devices: XTS Carrying handle: XHC

Carrying case: XS7

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.



(*) "S" denotes solid front case design



Type 1082 Test Gauge

Minor Graduations									
psi	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.	Pres.	Vac.	Pres.					
30/0/15	0.2	0.1	0.2	0.1	0.1	0.05					
30/0/30	0.5	0.2	0.2	0.1	0.2	0.1					
30/0/60	0.5	0.2	0.5	0.2	0.5	0.2					
30/0/100	1	0.5	0.5	0.5	0.5	0.2					
30/0/150	1	0.5	1	0.5	0.5	0.5					
30/0/200	2	1	1	0.5	1	0.5					
30/0/300	2	1	2	1	1	0.5					

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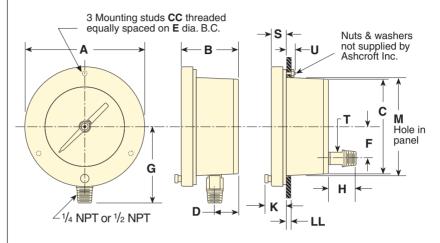
STANDARD RANGES

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30/0/400

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	В	C	D	E	F	G	н	K	M	S	т	U	CC	u
	4½″	6½ (155)				5% (137)		3 ¹⁵ / ₁₆ (100)			4½ (124)				#10-24	
1082	6″	7% ₆ (192)	2 ⁷ / ₈ (73)	4¾ (121)	1% ₆ (30)	7 (178)	1% (41)	4½ (114)	1% (35)	1 ¹ / ₃₂ (34)	6½ (165)	⁵ / ₆ (16)	% (16)	¾ (19)	1/4-20	% to % (3) (13)
	8½″	10¼6 (257)				9% (244)		6 (152)			9 (229)				1/4-20	

^{*}Millimeters shown in ().

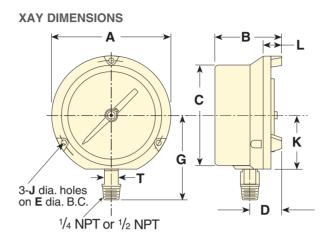
Table A - Case selection & mounting										
Dial Size (in)	Ordering Code	Case Type	Case: Material Finish	nting / Connection						
4½ 6 8½	(45) (60) (85)	1082	Aluminum, Black, epoxy Coated	Hinged Steel Wrinkle finish	Stem – Flush –	Lower or back Lower ⁽¹⁾ or back				

Table B - System Location and Connection Bourdon Tube & Tip Material (all joints TIG welded except code "A")	Socket Material	Tube & Socket Code	Case Style Code	NPT Conn. & Code	Conn. Location & Code	Range Selection Limits (psi)
Phosphor bronze tube, Brass tip, silver brazed	Brass	(A)-Tube	(S) Solid Front	(02) 1/4	Lower (L)	Vac./400
Monel 400	Monel 400	(P)	(S) Solid Front	(04) ½	Back (B)	Vac./10,000

NOTES: (1) Standard case only.



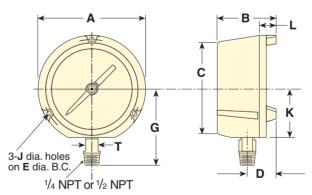
Type 1082 Test Gauge – XAY, XTY Case Options



Model	Dial Size Inches	A	В	С	D	Е	G	J	K	L	т
4000	4½"	513/16	37/16	4%	1%	5%	311/16	.218	2%	11/16	5% (4.0)
1082		(143)	(87)	(124)	(41)	(137)	(94)		(67)	(27)	(16)
XAY	6″	7%	3½	6%	1%	7	413/16	040	2%	11/16	5/8
	0	(194)	(89)	(162)	(41)	(178)	(113)	.218	(67)	(27)	(16)

^{*}Millimeters shown in ().

XTY DIMENSIONS



Model	Dial Size Inches	A	В	С	D	E	G	J	К	L	Т
1082	4½″	513/6	37/16	4%	1%	5%	311/16	.218	2%	11/16	% (16)
XTY		(143)	(87)	(124)	(41)	(137)	(94)		(67)	(27)	(16)

^{*}Millimeters shown in ().

