

- MircoSpan[™] adjustment eases span calibration
- Mirror-band dial and knife-edge pointer eliminates paralax error while assuring easy readability of precise measurements
- Teflon[™] coated, stainless steel movement
- Accuracy complies with ±0.25% of span (ASME B40.1 Grade 3A)
- Externally adjustable dial

TYPICAL USES

- Test benches
- Specialized OEM equipment
- Test and measurement & validation
- Calibration labs

SPECIFICATIONS

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Accuracy:	$\pm 0.25\%$ of span (ASME E	340.100 Grade 3A)					
Ranges:	Vacuum, Compound to 10	Vacuum, Compound to 10,000 psi					
Sizes:	4½″, 6″or 8½″						
Process Connection Location:	Lower or Back						
Process Connection:	1/4 NPT Male or 1/2 NPT Ma	ale					
Dial:	Externally adjustable alur with polished mirror band						
Case Style:	Solid front						
Movement:	400 Series SS rotary des bearings, micrometer spa temp. compensator (0.00 temperature error)	an adjustment, bimetallic					
Pointer:	Black painted aluminum with red-painted, knife edge tip						
Mounting Options:	Stem or flush						
Weather Protection:	Case not sealed, recomm protected environment or						
Approvals:	CE/UKCA, CRN						
WETTED COMPON	NENTS						
Bourdon Tube	Process Connection	Joints					
Bronze	Brass	Silver Brazed					
Monel®	Monel®	Welded					
NON-WETTED CO	MPONENTS						
Case	Ring	Window					
Aluminum, solid front, black epoxy coated	Hinged steel, black wrinkle finish	Glass					

1082 4½″, 6″, 8½″ dial sizes



0.5 psi subi Accuracy Grade 3A 0.25 %

ASHCROFT

Adjustment Gear

100

Externally Adjustable Dial



Temperature Compensated Movement

The MicroSpan[™] adjustment permits precise adjustments to achieve zero error in calibration at zero and 100% of scale.

KEY BENEFITS

- Temperature-compensated movement significantly reduces temperature error
- Rugged stainless steel construction
- Compact design

	MIN/MAX TEMPERATURE LIMITS							
Window	Version	Ambient	Process	Storage				
Glass	Dry		-20 °F to 250 °F (-29 °C to 121 °C)	-40 °F to 250 °F (-40 °C to 121 °C)				





800⁹⁰⁰10001100 1200

TEST GAUGE

5 psi subd

ASHCROFT

Morei KSDD Labe Morei 400 socie

Grade 3 925 % 1400

1600

170

1800

2000

Dial Gear

Clamp Screv

Adjustment Knob

600

500

400

200



ORDERING CODE	Example:	45	1082	Р	S	02	L	100#	-XPD
Dial Size									
45 - 41⁄2" dial		45							
60 - 6" dial									
85 - 8½″ dial									
Model									
1082 - Test gauge			1082						
System									
A - Bronze tube and brass socket (maximum available	le range 400 psi)								
P - Monel [®] tube and socket				Р					
Case Style									
S - Solid front					S	-			
Process Connection Size									
02 - ¼ NPT Male						02			
04 - 1/2 NPT Male									
Process Connection Location									
L - Lower							L		
B - Back									
Ranges (See additional range tables on page 3)									
15# - 0-15 psi									
30# - 0-30 psi									
60# - 0-60 psi									
100# - 0-100 psi								100#	
160# - 0-160 psi									
200# - 0-200 psi									
300# - 0-300 psi									
400# - 0-400 psi									
600# - 0-600 psi (Monel [®] wetted parts only)									
1000# - 0-1,000 psi (Monel® wetted parts only)									
Options (If choosing an option(s) must include an	"X")								-X
PD - Acrylic window									PD
SG - Safety Glass window									
TS - Throttling devices									
AY - Aluminum case, threaded ring (N/A with adjustat	ole dial, Lower connectior	n only)							
TY - Phenolic case, threaded ring (N/A with adjustable	e dial, Lower connection	only)							
C4 - Traceable calibration certificate									



		STANDARD I	RANGES	
	Ra	nge	Grad	uations
Vacuum	psi	in. Hg	Figure Interval	Minor Graduations
Vac	-	30/0 in. Hg	2 in. Hg	0.1 in. Hg
	0/15	-	1	0.05
	0/30	-	2	0.1
	0/60	-	5	0.2
	0/100	-	5	0.5
	0/150	_	10	0.5
e	0/200	-	10	1
Positive Pressure	0/300	-	10	1
	0/400	-	20	2
tive	0/600	-	50	2
Posi	0/800	-	50	5
_	0/1000	-	50	5
	0/1500	-	100	5
	0/2000	-	100	10
	0/3000	-	200	10
	0/5000	-	500	10
	0/10,000	-	1000	50

	COMP		GES								
	in. Hg/psi										
Compound	30/0/15	30/0/20	5/0/2								
	30/0/30	30/0/20	5/0/1								
	30/0/60	30/0/20	2/0/1								
	30/0/100	30/0/10	2/0/1								
Con	30/0/150	10/0/5	1/0/0.5								
	30/0/200	10/0/5	1/0/0.5								
	30/0/300	10/0/5	0.5/0/0.2								
	30/0/400	5/0/2	0.5/0/0.1								

	STAN	DARD RANGE	ES
Vacuum	Bar	kPa	kg/cm ²
Vac	-1/0	-100/0	-1/0
p	-1/0/1.5	-100/0/150	-1/0/1.5
JOOL	-1/0/3	-100/0/300	-1/0/3
Compound	-1/0/5	-100/0/500	-1/0/5
8	-1/0/9	-100/0/900	-1/0/9
	0/1	0/100	0/1
	0/1.6	0/160	0/1.6
	0/2.5	0/250	0/2.5
	0/4	0/400	0/4
	0/6	0/600	0/6
ance	0/10	0/1000	0/10
ress	0/16	0/1600	0/16
Positive Pressure	0/25	0/2500	0/25
sitiv	0/40	0/4000	0/40
P0	0/60	0/6000	0/60
	0/100	0/10,000	0/100
	0/160	0/16,000	0/160
	0/250	0/25,000	0/250
	0/400	0/40,000	0/400
	0/600	0/60,000	0/600

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DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings



Dial Size (inches)	A	В	С	сс	D	Е	F	G	н	к	LL	М	S	т	U
4 ½	6 ³ / ₃₂ [155]	2 ⁷ /8 [73]	4 ³ / ₄ [121]	#10-24	1 ³ / ₁₆ [30]	5 ³ /8 [137]	1 ⁵ /8 [41]	4 ⁷ / ₈ [100]	1 ³ /8 [35]	¹¹ / ₃₂ [34]		4 ⁷ /8 [124]		⁵ /8 [16]	³ / ₄ [19]
6	7 ⁹ / ₁₆ [192]	2 ⁷ /8 [73]	4 ³ / ₄ [121]	1⁄4-20	1 ³ / ₁₆ [30]	7 [178]	1 ⁵ /8 [41]	4 ½ [114]	1 ³ /8 [35]	1 ¹ / ₃₂ [34]	¹ / ₈ to ½ [3 to 13]	6½ [165]	⁵ /8 [16]	⁵ /8 [16]	³ / ₄ [19]
81⁄2	10 ¹ / ₁₆ [257]	2 ⁷ /8 [73]	4 ³ / ₄ [121]	1⁄4-20	1⁄4-20	9 ⁵ /8 [244]	1 ⁵ /8 [41]	6 [152]	1 ³ /8 [35]	¹¹ / ₃₂ [34]		9 [229]		⁵ /8 [16]	³ / ₄ [19]