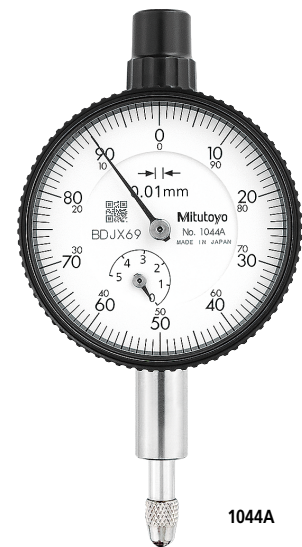




SERIES 1 — Compact Type, Small Diameter

- Compact dial indicators ideal for restricted-space applications in gaging jigs.
- The indicator is highly durable thanks to its oil- and water-tight design, quenched hardened stainless-steel, carbide contact point, and a grand gear made of wear- and deformation-resistant material.
- Application of an anti-reflective and hard surface coating improves scale visibility along with scratch and chemical resistance.



1044A

SPECIFICATIONS

Metric												ISO/JIS type	ANSI/AGD type
Code No.		Graduation (mm)	Range (range/rev) (mm)	Maximum permissible error (MPE) (μm)						Dial reading	Measuring force (N)		
w/lug	Flat-back			Indication error				Hysteresis	Repeat-ability				
				1/10 Rev	1/2 Rev	1 Rev	Measuring range						
1013A-10	1013AB-10	0.002	1 (0.2)	2.5	4	5	6	2.5	1	0-100-0	1.5 or less		
1040A	1040AB	0.01	3.5 (0.5)	8	10	11	13	4	3	±0-50	1.4 or less		
1041A	1041AB	0.01	3.5 (0.5)	8	10	11	13	4	3	0-25-0	1.4 or less		
1044A	1044AB	0.01	5 (1)	8	10	11	13	4	3	±0-100	1.4 or less		
1044A-15	1044AB-15	0.01	5 (1)	8	10	11	13	4	3	±0-100	0.4 or less*		
1044A-60	1044AB-60	0.01	5 (1)	8	10	11	13	4	3	±0-100	2.0 or less		
1045A	1045AB	0.01	5 (1)	8	10	11	13	4	3	0-50-0	1.4 or less		
1109A-10	1109AB-10	0.001	1 (0.2)	2.5	3.5	4.5	5	2	1	0-100-0	1.5 or less		
1124A	1124AB	0.005	3.5 (0.5)	6	9	10	12	3.5	3	±0-50	1.4 or less		

* For low measuring force type, use in the vertical orientation.

Note: Completed products inspection is performed in the vertical orientation (contact point downward) and the stated accuracy is guaranteed.

Inch										
Code No.		Graduation (in)	Range (range/rev) (in)	Accuracy (in)		Repeat-ability (in)	Dial reading	Measuring force (N)		
w/lug	Flat-back			First 1 Rev/2.5 Rev/10 Rev					Retrace	
1410A	1410AB	0.001	0.25 (0.1)	±0.001/±0.001/—		0.0002	±0.0002	0-100	1.4 or less	
1411A	1411AB	0.001	0.25 (0.1)	±0.001/±0.001/—		0.0002	±0.0002	0-50-0	1.4 or less	
1410A-10	1410AB-10	0.001	0.25 (0.1)	±0.001/±0.001/—		0.0002	±0.0002	0-100	1.4 or less	
1780A	1780AB	0.001	0.125 (0.05)	±0.001/±0.001/—		0.0002	±0.0002	0-50	1.4 or less	
1781A	1781AB	0.001	0.125 (0.05)	±0.001/±0.001/—		0.0002	±0.0002	0-25-0	1.4 or less	
1506A	1506AB	0.0005	0.125 (0.05)	±0.0005/±0.0005/—		0.00016	±0.0001	0-50	1.4 or less	
1507A	1507AB	0.0005	0.125 (0.05)	±0.0005/±0.0005/—		0.00016	±0.0001	0-25-0	1.4 or less	
1670A	1670AB	0.0005	0.1 (0.04)	±0.0005/±0.0005/—		0.00016	±0.0001	0-40	1.4 or less	
1671A	1671AB	0.0005	0.1 (0.04)	±0.0005/±0.0005/—		0.00016	±0.0001	0-20-0	1.4 or less	
1802A-10	1802AB-10	0.0001	0.025 (0.01)	±0.0001/±0.0001/—		0.0001	±0.00003	0-10	1.5 or less	
1803A-10	1803AB-10	0.0001	0.025 (0.01)	±0.0001/±0.0001/—		0.0001	±0.00003	0-5-0	1.5 or less	

Note: Completed products inspection is performed in the vertical orientation (contact point downward) and the stated accuracy is guaranteed.

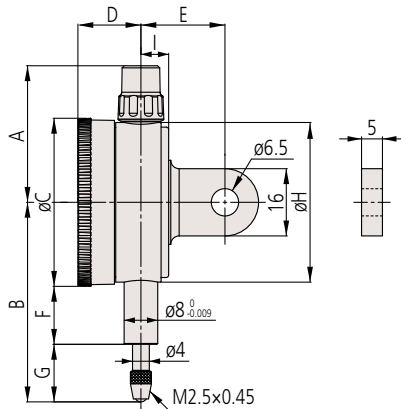
Dial Indicators

SERIES 1 — Compact Type, Small Diameter

DIMENSIONS

ISO/JIS
Type

Unit: mm

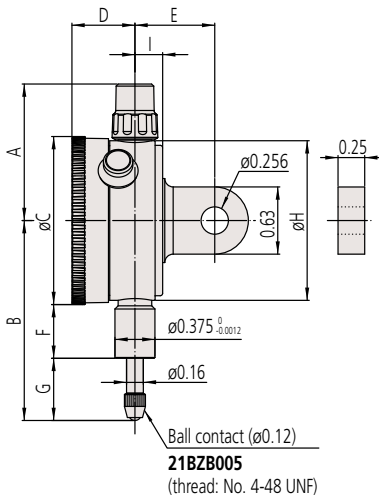


Code No.	A	B	C	D	E	F	G	H	I
1013A-10	32.5	49	40	15	20	13.8	15.2	38	6.6
1040A	32.5	46	40	15	20	13.8	12.2	38	6.6
1041A	32.5	46	40	15	20	13.8	12.2	38	6.6
1044A	32.5	47.5	40	15	20	13.8	13.7	38	6.6
1044A-15*	32.5	47.5	40	15	20	13.8	13.7	38	6.6
1044A-60	32.5	57	40	15	20	12.2	24.8	38	6.6
1045A	32.5	47.5	40	15	20	13.8	13.7	38	6.6
1109A-10	32.5	49	40	15	20	13.8	15.2	38	6.6
1124A	32.5	46	40	15	20	13.8	12.2	38	6.6

* Use in the vertical orientation (contact point downward) for the low measuring force model.
Note: Refer to pages 07-63 to 07-68 for details of contact points.

ANSI/AGD
Type

Unit: in



Code No.	A	B	C	D	E	F	G	H	I
1410A	1.28	1.87	1.57	0.59	3/4	0.50	0.58	1.50	0.26
1411A	1.28	1.87	1.57	0.59	3/4	0.50	0.58	1.50	0.26
1410A-10	1.28	1.87	1.57	0.59	3/4	0.50	0.58	1.50	0.26
1780A	1.28	1.74	1.57	0.59	3/4	0.50	0.44	1.50	0.26
1781A	1.28	1.74	1.57	0.59	3/4	0.50	0.44	1.50	0.26
1506A	1.28	1.74	1.57	0.59	3/4	0.50	0.44	1.50	0.26
1507A	1.28	1.74	1.57	0.59	3/4	0.50	0.44	1.50	0.26
1670A	1.28	1.71	1.57	0.59	3/4	0.50	0.42	1.50	0.26
1671A	1.28	1.71	1.57	0.59	3/4	0.50	0.42	1.50	0.26
1802A-10	1.28	1.63	1.57	0.59	3/4	0.50	0.33	1.50	0.26
1803A-10	1.28	1.63	1.57	0.59	3/4	0.49	0.33	1.50	0.26

Note: Refer to pages 07-63 to 07-68 for details of contact points.



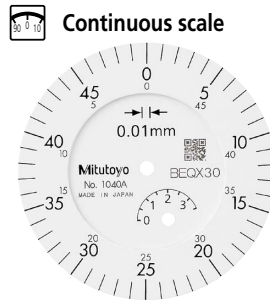
Optional Accessories

- Limit hand (2 pcs.): **21AAB363**



- Bezel clamp: **21RZA149**

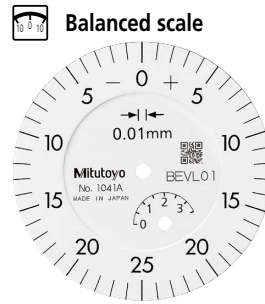




Graduation: 0.01 mm,
Measuring range: 3.5 mm

1040A

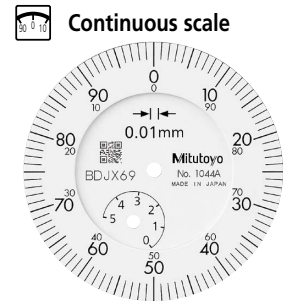
Double scale spacing



Graduation: 0.01 mm,
Measuring range: 3.5 mm

1041A

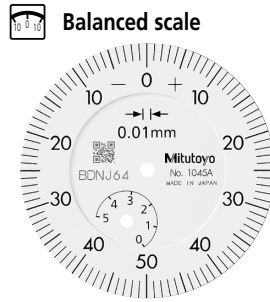
Double scale spacing



Graduation: 0.01 mm,
Measuring range: 5 mm

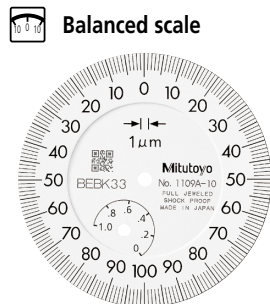
1044A

Jeweled bearing



Graduation: 0.01 mm,
Measuring range: 5 mm

1045A

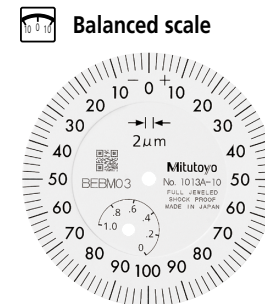


Graduation: 0.001 mm,
Measuring range: 1 mm

1109A-10

Shockproof

Jeweled bearing

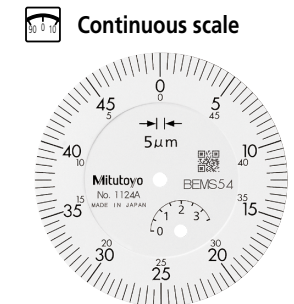


Graduation: 0.002 mm,
Measuring range: 1 mm

1013A-10

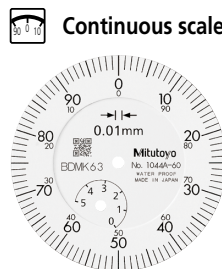
Shockproof

Jeweled bearing



Graduation: 0.005 mm,
Measuring range: 3.5 mm

1124A



Graduation: 0.01 mm,
Measuring range: 5 mm

1044A-60

Waterproof

FEATURES

Metric ☐ ISO/JIS type ☐ ANSI/AGD type

Code No.		w/lug		Flat-back					
1013A-10	1013AB-10								
1040A	1040AB								
1041A	1041AB								
1044A	1044AB								
1044A-15	1044AB-15								
1044A-60	1044AB-60								
1045A	1045AB								
1109A-10	1109AB-10								
1124A	1124AB								

Code No.		w/lug		Flat-back					
1410A	1410AB								
1411A	1411AB								
1410A-10	1410AB-10								
1780A	1780AB								
1781A	1781AB								
1506A	1506AB								
1507A	1507AB								
1670A	1670AB								
1671A	1671AB								
1802A-10	1802AB-10								
1803A-10	1803AB-10								