

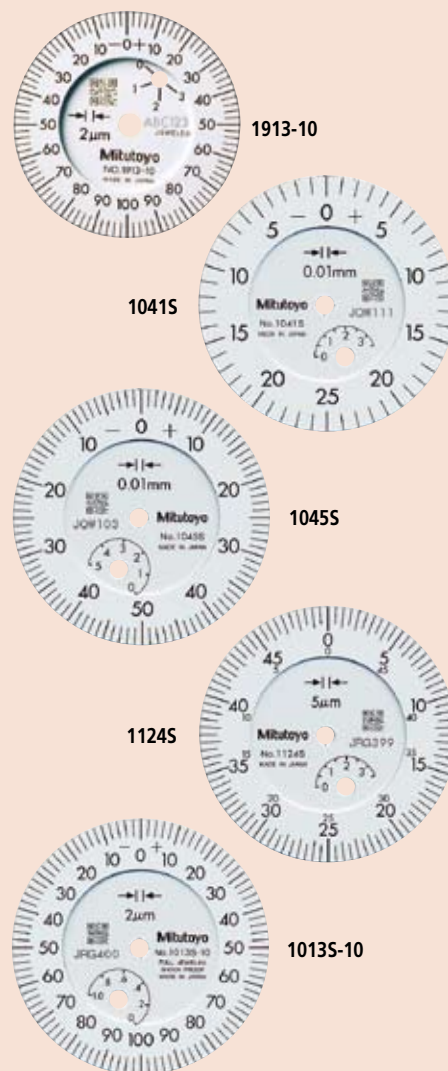
Dial Indicator

SERIES 1 — Compact Type

Mitutoyo's Series 1 dial indicators offer accuracy and durability for shop applications demanding highly accurate measurements where space is limited. The spindle is made of hardened stainless steel for durability, while the rack gear is machine ground for a tighter fit and increased accuracy.



(Refer to page VIII for details.)

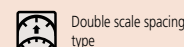


SPECIFICATIONS

Metric		ISO/JIS type									
Graduation	Order No.		Range (range/rev)	Accuracy				Repeat- ability	Dial reading	Measuring force	
	w/ lug	Flat-back		Overall	Retrace	1/10 Rev	1 Rev				
0.01mm	1911	1911B	2.5mm (1mm)	±12μm	6μm	7μm	±10μm	5μm	0-50-0	1.8N or less	
0.002mm	1913-10	1913B-10	0.5mm (0.2mm)	±8μm	5μm	6μm	±7μm	2μm	0-100-0	1.8N or less	
0.01mm	1003	1003B	4mm (1mm)	±13μm	6μm	8μm	±11μm	5μm	0-50-0	1.4N or less	
0.01mm	1044S	1044SB	5mm (1mm)	±13μm	6μm	8μm	±11μm	5μm	±0-100	1.4N or less	
0.01mm	1045S	1045SB	5mm (1mm)	±13μm	6μm	8μm	±11μm	5μm	0-50-0	1.4N or less	
0.01mm	1044S-15	1044SB-15	5mm (1mm)	±13μm	6μm	8μm	±11μm	5μm	±0-100	0.4N or less*	
0.01mm	1044S-60	1044SB-60	5mm (1mm)	±13μm	6μm	8μm	±11μm	5μm	±0-100	2.0N or less	
0.01mm	1040S	1040SB	3.5mm (0.5mm)	±13μm	6μm	8μm	±11μm	5μm	±0-50	1.4N or less	
0.01mm	1041S	1041SB	3.5mm (0.5mm)	±13μm	6μm	8μm	±11μm	5μm	0-25-0	1.4N or less	
0.005mm	1124S	1124SB	3.5mm (0.5mm)	±13μm	6μm	8μm	±11μm	5μm	±0-50	1.4N or less	
0.001mm	1109S-10	1109SB-10	1mm (0.2mm)	±7μm	5μm	5μm	±6μm	1μm	0-100-0	1.5N or less	
0.002mm	1013S-10	1013SB-10	1mm (0.2mm)	±10μm	5μm	7μm	±8μm	1μm	0-100-0	1.5N or less	

FEATURES

Metric				
Order No.	w/ lug	Flat-back	Double scale spacing type	Jeweled bearing type
1911	1911B	—	—	—
1913-10	1913B-10	—	✓	—
1003	1003B	—	—	—
1044S	1044SB	—	—	—
1045S	1045SB	—	—	—
1044S-15	1044SB-15	—	✓	—
1044S-60	1044SB-60	—	—	✓
1040S	1040SB	✓	—	—
1041S	1041SB	✓	—	—
1124S	1124SB	—	—	—
1109S-10	1109SB-10	—	✓	—
1013S-10	1013SB-10	—	✓	—



Double scale spacing type



Jeweled bearing type



Waterproof type

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Jeweled bearing type



Shockproof type

FEATURES

Inch

Order No.	w/ lug	Flat-back		
1921	1921B	—	—	—
1923	1923B	✓	—	—
1927-10	1927B-10	✓	—	—
1925-10	1925B-10	✓	—	—
1410S	1410SB	—	—	—
1411S	1411SB	—	—	—
1410S-10	1410SB-10	✓	—	—
1780S	1780SB	—	—	—
1781S	1781SB	—	—	—
1506S	1506SB	—	—	—
1507S	1507SB	—	—	—
1670S	1670SB	—	—	—
1671S	1671SB	—	—	—
1802S-10	1802SB-10	✓	✓	✓
1803S-10	1803SB-10	✓	✓	✓

SPECIFICATIONS

Inch

ANSI/AGD type

Graduation	Order No.	w/ lug	Flat-back	Range (range/rev)	Accuracy		Repeat-ability	Dial reading	Measuring force
					First 1 Rev / 2.5 Rev / 10 Rev	Retrace			
.001"	1921	1921B		.1" (.04")	±.001" / ±.001" / —	.0002"	±.0002"	0-20-0	1.8N or less
.0005"	1923	1923B		.05" (.02")	±.0005" / ±.0005" / —	.0016"	±.0001"	0-10-0	1.8N or less
.0001"	1927-10	1927B-10		.01" (.004")	±.0002" / ±.0002" / —	.0001"	±.00003"	0-2-0	1.8N or less
.0001"	1925-10	1925B-10		.025" (.01")	±.0002" / ±.0002" / —	.0001"	±.00003"	0-5-0	1.8N or less
.001"	1410S	1410SB		.25" (.1")	±.001" / ±.001" / —	.0002"	±.0002"	0-100	1.4N or less
.001"	1411S	1411SB		.25" (.1")	±.001" / ±.001" / —	.0002"	±.0002"	0-50-0	1.4N or less
.001"	1410S-10	1410SB-10		.25" (.1")	±.001" / ±.001" / —	.0002"	±.0002"	0-100	1.4N or less
.001"	1780S	1780SB		.125" (.05")	±.001" / ±.001" / —	.0002"	±.0002"	0-50	1.4N or less
.001"	1781S	1781SB		.125" (.05")	±.001" / ±.001" / —	.0002"	±.0002"	0-25-0	1.4N or less
.0005"	1506S	1506SB		.125" (.05")	±.0005" / ±.0005" / —	.00016"	±.0001"	0-50	1.4N or less
.0005"	1507S	1507SB		.125" (.05")	±.0005" / ±.0005" / —	.00016"	±.0001"	0-25-0	1.4N or less
.0005"	1670S	1670SB		.1" (.04")	±.0005" / ±.0005" / —	.00016"	±.0001"	0-40	1.4N or less
.0005"	1671S	1671SB		.1" (.04")	±.0005" / ±.0005" / —	.00016"	±.0001"	0-20-0	1.4N or less
.0001"	1802S-10	1802SB-10		.025" (.01")	±.0001" / ±.0001" / —	.0001"	±.00003"	0-10	1.5N or less
.0001"	1803S-10	1803SB-10		.025" (.01")	±.0001" / ±.0001" / —	.0001"	±.00003"	0-5-0	1.5N or less

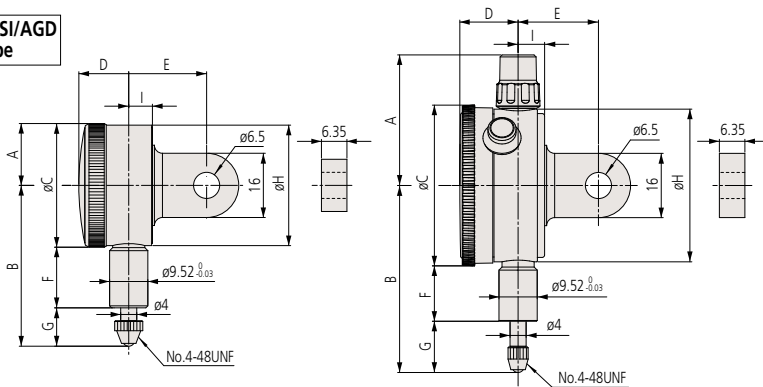
Optional Accessories

- : Backs (See page F-40.)
 —: Contact points (See page F-36.)

DIMENSIONS

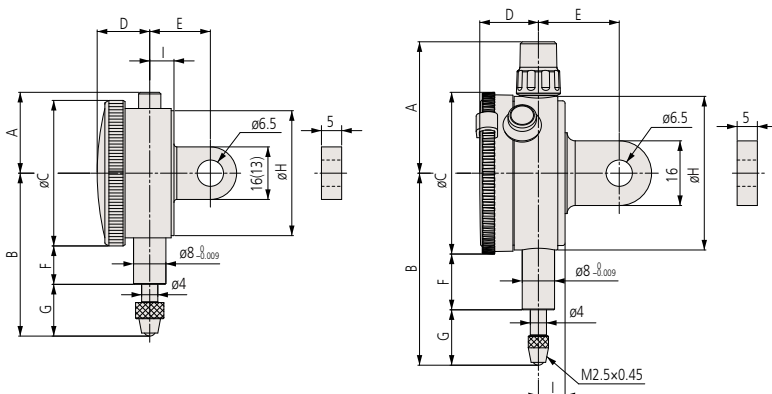
ANSI/AGD Type

Unit: mm



- Note 1: Dimensions of the inch (ANSI/AGD Type) dial indicator partly differ from those of the metric (ISO/JIS Type) indicator.
 Note 2: Inch (ANSI/AGD Type) dial indicator is provided with a stem of 3/8" dia. and #4-48UNF thread mount for the contact point.

ISO/JIS Type



Order No.	A	B	C	D	E	F	G	H	I
1921	15.5	40	31	12.5	19	15	9.5	30	7
1923	15.5	38.3	31	12.5	19	15	7.8	30	7
1927-10	15.5	37.2	31	12.5	19	15	6.7	30	7
1925-10	15.5	37.5	31	12.5	19	15	7	30	7
1410S	32.5	47.6	40	14.5	19	12.8	14.8	38	6.6
1411S	32.5	47.6	40	14.5	19	12.8	14.8	38	6.6
1410S-10	32.5	47.6	40	14.5	19	12.8	14.8	38	6.6
1780S	32.5	44.1	40	14.5	19	12.8	11.3	38	6.6
1781S	32.5	44.1	40	14.5	19	12.8	11.3	38	6.6
1506S	32.5	44.4	40	14.5	19	12.8	11.3	38	6.6
1507S	32.5	44.4	40	14.5	19	12.8	11.3	38	6.6
1670S	32.5	43.4	40	14.5	19	12.8	10.6	38	6.6
1671S	32.5	43.4	40	14.5	19	12.8	10.6	38	6.6
1802S-10	32.5	41.3	40	14.5	19	12.5	8.5	38	6.6
1803S-10	32.5	41.3	40	14.5	19	12.5	8.5	38	6.6

Order No.	A	B	C	D	E	F	G	H	I
1911	15.5	42	31	12.5	19	15	11.5	30	7
1913-10	15.5	39.5	31	12.5	19	15	9	30	7
1003	20	40.3	36	13	15	9.5	12.8	32	6
1013S-10	32.5	49	40	14.5	20	13.8	15.2	38	6.6
1040S	32.5	46	40	14.5	20	13.8	12.2	38	6.6
1041S	32.5	46	40	14.5	20	13.8	12.2	38	6.6
1044S	32.5	47.5	40	14.5	20	13.8	13.7	38	6.6
1044S-15*2	32.5	47.5	40	14.5	20	13.8	13.7	38	6.6
1044S-60	32.5	57	40	14.5	20	12.2	24.8	38	6.6
1045S	32.5	47.5	40	14.5	20	13.8	13.7	38	6.6
1109S-10	32.5	49	40	14.5	20	13.8	15.2	38	6.6
1124S	32.5	46	40	14.5	20	13.8	12.2	38	6.6

*2 Use in a vertical position (contact point downward) for the low measuring force model and the long stroke model.

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