

Dial Indicators

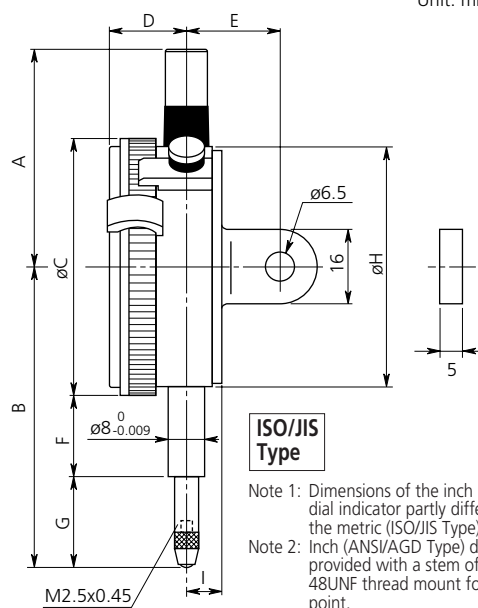
SERIES 2

DIAL INDICATORS



Dimensions

Unit: mm



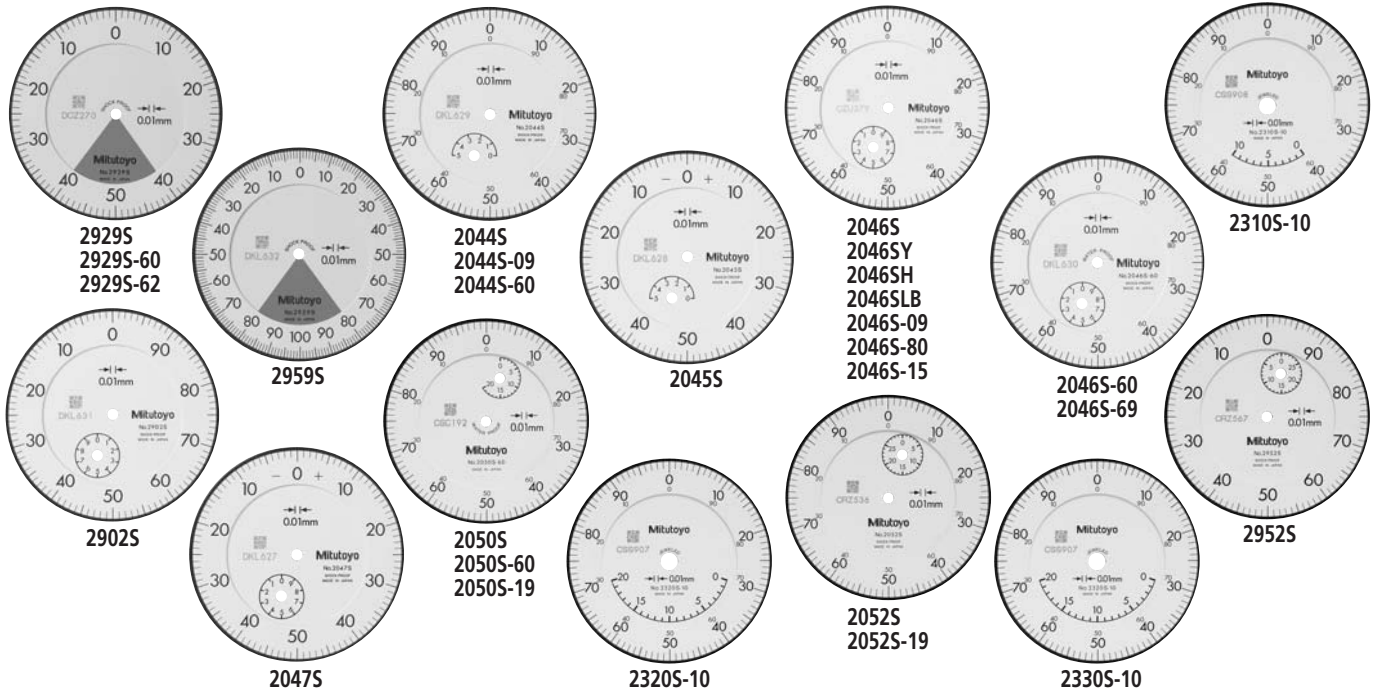
ISO/JIS Type

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.

Order No.	A	B	C	D	E	F	G	H	I
2929S	48.8	65.2	57	17.7	20	16.9	19.8	52	7.6
2929S-62	48.8	65.2	57	17.7	20	16.9	19.8	52	7.6
2929S-60	48.8	70	57	17.7	20	12.3	39.2	52	7.6
2959S	48.8	65.2	57	17.7	20	16.9	19.8	52	7.6
2044S	48.8	65.2	57	17.7	20	16.9	19.8	52	7.6
2044S-09	48.8	65.2	57	17.7	20	16.9	19.8	52	7.6
2044S-60	48.8	70	57	17.7	20	12.3	29.2	52	7.6
2045S	48.8	65.2	57	17.7	20	16.9	19.8	52	7.6
2046S	48.8	65.2	57	17.7	20	16.9	19.8	52	7.6
2046SH	48.8	65.2	57	17.7	20	16.9	19.8	52	7.6
2046SLB	48.8	85.2	57	17.7	—	36.9	19.8	52	7.6
2046S-09	48.8	65.2	57	17.7	20	16.9	19.8	52	7.6
2046S-60	48.8	70	57	17.7	20	12.3	29.2	52	7.6
2046S-69	48.8	70	57	17.7	20	12.3	29.2	52	7.6
2046S-80	59.8	65.2	57	17.7	20	16.9	19.8	52	7.6
2046S-15	48.8	65.2	57	17.7	20	16.9	19.8	52	7.6
2048S-10	47.4	64.9	57	17.7	20	16.9	19.8	52	7.6
2310S-10	48.8	65.2	57	17.7	20	16.9	19.5	52	7.6
2902S	48.8	65.2	57	17.7	20	16.9	19.8	52	7.6
2047S	48.8	65.2	57	17.7	20	16.9	19.8	52	7.6
2050S	38.8	75.2	57	17.7	20	16.9	29.8	52	7.6
2050S-60	59.8	87.2	57	17.7	20	12.3	46.4	52	7.6
2050S-19	38.8	75.2	57	17.7	20	16.9	29.8	52	7.6
2320S-10	38.8	75.2	57	17.7	20	16.9	29.8	52	7.6
2052S	38.8	88.7	57	17.7	20	16.9	43.3	52	7.6
2052S-19	38.8	88.7	57	17.7	20	16.9	43.3	52	7.6
2330S-10	38.8	88.7	57	17.7	20	16.9	43.3	52	7.6
2952S	38.8	88.7	57	17.7	20	16.9	43.3	52	7.6

Series 2 dial indicators are Mitutoyo's most popular, and have the widest application. Especially the "one revolution" dial indicator is developed for in-process measuring. This indicator features a hand that makes only one revolution throughout the entire spindle range. This prevents costly measuring errors made with indicators whose hands make as many as 2 - 1/2 revolutions.

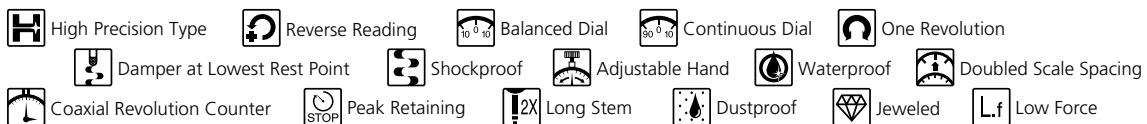
- High Precision Type
- Reverse Reading
- Balanced Dial
- Continuous Dial
- One Revolution
- Damper at Lowest Rest Point
- Shockproof
- Adjustable Hand
- Waterproof
- Doubled Scale Spacing
- Coaxial Revolution Counter
- Peak Retaining
- Long Stem
- Dustproof
- Jeweled
- Low Force



SPECIFICATIONS

Metric ISO/JIS

Graduation	Range	Order No.		Range per revolution	Dial reading	Accuracy	Measuring force	Remarks
		Lug-Back	Flat-back					
0.01mm	1mm	2929S	2929SB	—	50-0-50	±10μm	1.4N or less	
		2929S-60	2929SB-60	—	50-0-50	±10μm	1.4N or less	
		2929S-62	2929SB-62	—	50-0-50	±10μm	1.4N or less	
	1.6mm	2959S	2959SB	—	80-0-80	±14μm	1.4N or less	
	5mm	2044S	2044SB	1mm	0-100 (100-0)	±12μm	1.4N or less	
2044S-09		2044SB-09	1mm	0-100 (100-0)	±13μm	1.4N or less		
2044S-60		2044SB-60	1mm	0-100 (100-0)	±12μm	1.4N or less		
2045S		2045SB	1mm	0-50-0	±12μm	1.4N or less		
	10mm	2046S	2046SB	1mm	0-100 (100-0)	±13μm	1.4N or less	
2046SY		2046SYB	1mm	0-100 (100-0)	±13μm	1.4N or less		
2046SH		2046SHB	1mm	0-100 (100-0)	±8μm	1.4N or less		
—		2046SLB	1mm	0-100 (100-0)	±13μm	1.4N or less		
2046S-09		2046SB-09	1mm	0-100 (100-0)	±15μm	1.4N or less		
2046S-60		2046SB-60	1mm	0-100 (100-0)	±13μm	2.5N or less		
2046S-69		2046SB-69	1mm	0-100 (100-0)	±15μm	2.5N or less		
2046S-80		2046SB-80	1mm	0-100 (100-0)	±15μm	5.0N		
2046S-15		2046SB-15	1mm	0-100 (100-0)	±15μm	0.8N or less		
2048S-10		2048SB-10	1mm	0-100 (100-0)	±15μm	1.4N or less		
2310S-10		2310SB-10	1mm	0-100	±15μm	1.4N or less		
2902S		2902SB	1mm	100-0	±13μm	1.4N or less		
2047S		2047SB	1mm	0-50-0	±13μm	1.4N or less		
		20mm	2050S	2050SB	1mm	0-100 (100-0)	±20μm	2.0N or less
2050S-60	2050SB-60		1mm	0-100 (100-0)	±20μm	2.2N or less		
2050S-19	2050SB-19		1mm	0-100 (100-0)	±20μm	2.0N or less		
2320S-10	2320SB-10		1mm	0-100	±20μm	2.0N or less		
	30mm	2052S	2052SB	1mm	0-100 (100-0)	±25μm	2.5N or less	
2052S-19		2052SB-19	1mm	0-100 (100-0)	±25μm	2.2N or less		
2330S-10		2330SB-10	1mm	0-100	±25μm	2.5N or less		
2952S		2952SB	1mm	100-0	±25μm	2.5N or less		



Dial Indicators

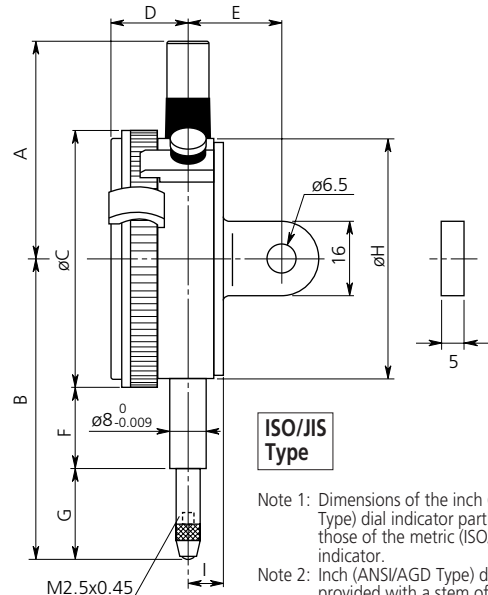
SERIES 2

DIAL INDICATORS



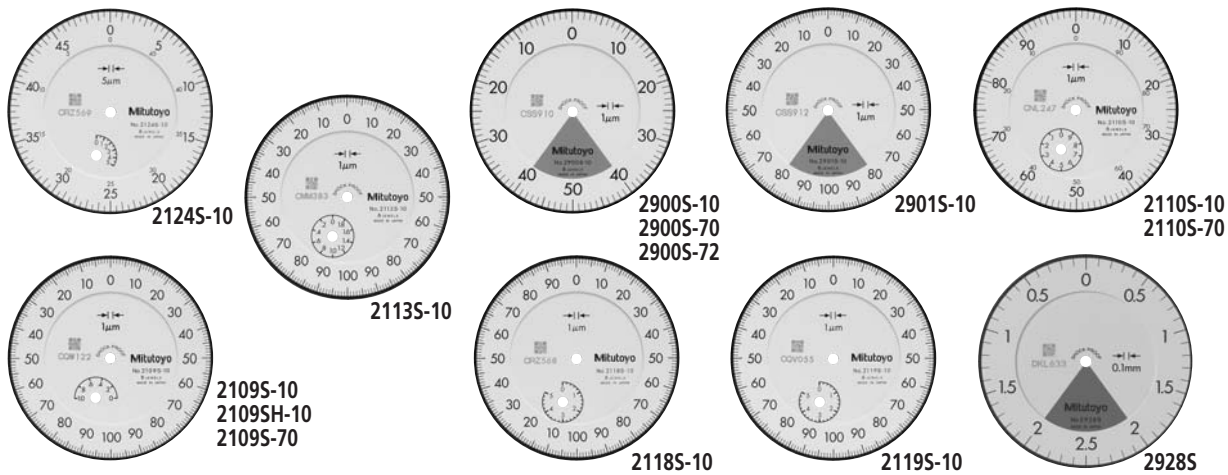
Dimensions

Unit: mm



Order No.	A	B	C	D	E	F	G	H	I
2124S-10	48.8	60.3	57	17.7	20	16.9	14.9	52	7.6
2900S-10	48.8	66	57	17.7	20	16.9	20.6	52	7.6
2900S-72	48.8	66	57	17.7	20	16.9	20.6	52	7.6
2900S-70	48.8	67	57	17.7	20	12.3	26.2	52	7.6
2901S-10	48.8	66.1	57	17.7	20	16.9	20.7	52	7.6
2110S-10	48.8	66.5	57	17.7	20	16.9	21.1	52	7.6
2110S-70	48.8	67.5	57	17.7	20	12.3	26.7	52	7.6
2109S-10	48.8	60.5	57	17.7	20	16.9	15.1	52	7.6
2109SH-10	48.8	60.5	57	17.7	20	16.9	15.1	52	7.6
2109SLB-10	48.8	80.5	57	17.7	—	36.9	15.1	52	7.6
2109S-70	48.8	65.3	57	17.7	20	12.3	24.5	52	7.6
2113S-10	48.8	61	57	17.7	20	16.9	14.9	52	7.6
2118S-10	48.8	60.3	57	17.7	20	16.9	14.9	52	7.6
2119S-10	48.8	60.3	57	17.7	20	16.9	14.9	52	7.6
2928S	48.8	65.2	57	17.7	20	16.9	19.8	52	7.6

- High Precision Type
- Reverse Reading
- Balanced Dial
- Continuous Dial
- One Revolution
- Damper at Lowest Rest Point
- Shockproof
- Adjustable Hand
- Waterproof
- Doubled Scale Spacing
- Coaxial Revolution Counter
- Peak Retaining
- Long Stem
- Dustproof
- Jeweled
- Low Force



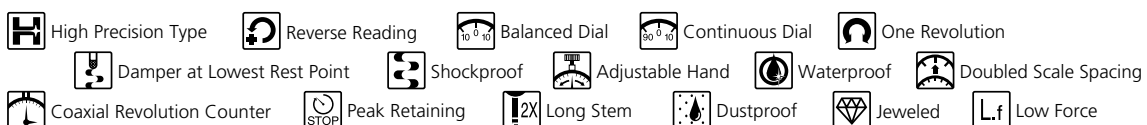
SPECIFICATIONS

Metric ISO/JIS

Graduation	Range	Order No. Lug-Back	Order No. Flat-back	Range per revolution	Dial reading	Accuracy	Measuring force	Remarks
0.005mm	5mm	2124S-10	2124SB-10	0.5mm	0-50 (50-0)	$\pm 12\mu\text{m}$	1.5N or less	
0.001mm	0.1mm	2900S-10	2900SB-10	—	50-0-50	$\pm 3.5\mu\text{m}$	1.4N or less	
		2900S-70	2900SB-70	—	50-0-50	$\pm 3.5\mu\text{m}$	1.4N or less	
		2900S-72	2900SB-72	—	50-0-50	$\pm 3.5\mu\text{m}$	1.4N or less	
	0.16mm	2901S-10	2901SB-10	—	80-0-80	$\pm 5\mu\text{m}$	1.4N or less	
	1mm	2110S-10	2110SB-10	0.1mm	0-100 (100-0)	$\pm 5\mu\text{m}$	1.5N or less	
		2110S-70	2110SB-70	0.1mm	0-100 (100-0)	$\pm 5\mu\text{m}$	1.5N or less	
		2109S-10	2109SB-10	0.2mm	0-100-0	$\pm 5\mu\text{m}$	1.5N or less	
		2109SH-10	2109SHB-10	0.2mm	0-100-0	$\pm 3\mu\text{m}$	1.5N or less	
		—	2109SLB-10	0.2mm	0-100-0	$\pm 5\mu\text{m}$	1.5N or less	
		2109S-70	2109SB-70	0.2mm	0-100-0	$\pm 5\mu\text{m}$	2.0N or less	
	2mm	2113S-10	2113SB-10	0.2mm	0-100-0	$\pm 7\mu\text{m}$	1.5N or less	
	5mm	2118S-10	2118SB-10	0.2mm	0-100-100	$\pm 10\mu\text{m}$	1.5N or less	
		2119S-10	2119SB-10	0.2mm	0-100-0	$\pm 10\mu\text{m}$	1.5N or less	
0.1mm	4mm	2928S	2928SB	—	2-0-2	$\pm 40\mu\text{m}$	1.4N or less	

Inch ANSI/AGD

Graduation	Range	Order No. Lug-Back	Order No. Flat-back	Range per revolution	Dial reading	Accuracy	Measuring force	Remarks
.01"	1"	2204F	2204FB	1"	0-1000	$\pm .005"$	2.0N or less	
.001"	.08"	2945-40	2945B-40	—	40-0-40	$\pm .001"$	1.4N or less	
		—	2908B-62	—	40-0-40	$\pm .001"$	1.4N or less	
	.125"	2780F	2780FB	.05"	0-50	$\pm .001"$	1.5N or less	
		2781F	2781FB	.05"	0-25-0	$\pm .001"$	1.5N or less	
	.25"	2410F	2410FB	.1"	0-100	$\pm .001"$	1.5N or less	
		2410F-10	2410FB-10	.1"	0-100	$\pm .001"$	1.5N or less	
		2410F-60	2410FB-60	.1"	0-100	$\pm .001"$	1.5N or less	
		2919F-10	2919FB-10	.1"	0-100	$\pm .001"$	1.5N or less	
		2411F	2411FB	.1"	0-50-0	$\pm .001"$	1.5N or less	
		2411F-10	2411FB-10	.1"	0-50-0	$\pm .001"$	1.5N or less	
		2411F-60	2411FB-60	.1"	0-50-0	$\pm .001"$	1.5N or less	
		2920F-10	2920FB-10	.1"	0-50-0	$\pm .001"$	1.5N or less	



Dial Indicators

SERIES 2

SPECIFICATIONS

Inch ANSI/AGD

Graduation	Range	Order No. Lug-Back	Order No. Flat-back	Range per revolution	Dial reading	Accuracy	Measuring force	Remarks
.001 "	.4 "	2412F	2412FB	.1 "	0-100	±.001 "	1.5N or less	
		2412-80	—	.1 "	0-100	±.001 "	5.0N or less	
		2903F	2903FB	.1 "	100-0	±.001 "	1.5N or less	
		2413F	2413FB	.1 "	0-50-0	±.001 "	1.5N or less	
	.5 "	2414F	—	.1 "	0-100	±.001 "	1.5N or less	
		2414F-10	2414FB-10	.1 "	0-100	±.001 "	1.5N or less	
		2915F-10	2915FB-10	.1 "	0-100	±.001 "	1.5N or less	
		2415F	2415FB	.1 "	0-50-0	±.001 "	1.5N or less	
		2415F-10	2415FB-10	.1 "	0-50-0	±.001 "	1.5N or less	
		2415F-60	2415FB-60	.1 "	0-50-0	±.001 "	1.5N or less	
		2918F-10	2918FB-10	.1 "	0-50-0	±.001 "	1.5N or less	
		2416F	2416FB	.1 "	0-100	±.002 "	2.0N or less	
	1 "	2416F-10	2416FB-10	.1 "	0-100	±.002 "	2.0N or less	
		2904F	2904FB	.1 "	100-0	±.002 "	2.0N or less	
		2417F	2417FB	.1 "	0-50-0	±.002 "	2.0N or less	
		2424-10	2424B-10	.1 "	0-100	±.003 "	2.5N or less	
.0005 "	.04 "	2909-62	2909B-62	—	20-0-20	±.0005 "	1.4N or less	
	.075 "	2570F	2570FB	.03 "	0-30	±.0005 "	1.5N or less	
		2570F-60	2570FB-60	.03 "	0-30	±.0005 "	1.5N or less	
		2571F	2571FB	.03 "	0-15-0	±.0005 "	1.5N or less	
		2571F-60	2571FB-60	.03 "	0-15-0	±.0005 "	1.5N or less	
	.1 "	2670F	2670FB	.04 "	0-40	±.0005 "	1.5N or less	
		2670F-10	2670FB-10	.04 "	0-40	±.0005 "	1.5N or less	
		2671F	2671FB	.04 "	0-20-0	±.0005 "	1.5N or less	
	.125 "	2506F	2506FB	.05 "	0-50	±.0005 "	1.5N or less	
		2906F	2906FB	.05 "	50-0	±.0005 "	1.5N or less	
		2507F	2507FB	.05 "	0-25-0	±.0005 "	1.5N or less	
		2922F	2922FB	.05 "	0-25-0	±.0005 "	1.5N or less	
	.4 "	2675-08	2675B-08	.04 "	0-20-0	±.001 "	1.5N or less	
	.5 "	2514F	2514FB	.05 "	0-50	±.002 "	1.5N or less	
	1 "	2776F	2776FB	.05 "	0-50	±.003 "	1.5N or less	
.00025 "	.05 "	2470-50	—	.02 "	0-20	±.0005 "	1.5N or less	
		2471-50	—	.02 "	0-10-0	±.0005 "	1.5N or less	
.0001 "	.008 "	2947F-10	2947FB-10	—	4-0-4	±.0001 "	1.5N or less	
		2910-72	2910B-72	—	4-0-4	±.0001 "	1.4N or less	
	.02 "	2938F-10	2938FB-10	.008 "	0-8	±.0001 "	1.5N or less	
		2937F-10	2937FB-10	.008 "	0-4-0	±.0001 "	1.5N or less	
	.025 "	2802F-10	2802FB-10	.01 "	0-10	±.0002 "	1.5N or less	
		2802F-60	2802FB-60	.01 "	0-10	±.0002 "	1.5N or less	
		2803F-10	2803FB-10	.01 "	0-5-0	±.0002 "	1.5N or less	
		2803-70	—	.01 "	0-5-0	±.0002 "	1.5N or less	
	.05 "	2804F-10	2804FB-10	.01 "	0-10	±.0002 "	1.5N or less	
		2905F-10	2905FB-10	.01 "	10-0	±.0002 "	1.5N or less	
		2805F-10	2805FB-10	.01 "	0-5-0	±.0002 "	1.5N or less	
		2805-80	—	.01 "	0-5-0	±.0002 "	5.0N or less	
		2923F-10	2923FB-10	.01 "	0-5-0	±.0002 "	1.5N or less	
	.25 "	2356-50	—	.01 "	0-10	±.0002 "	1.5N or less	
	.5 "	2358-50	—	.01 "	0-10	±.0002 "	1.5N or less	



High Precision Type



Reverse Reading



Balanced Dial



Continuous Dial



One Revolution



Damper at Lowest Rest Point



Shockproof



Adjustable Hand



Waterproof



Doubled Scale Spacing



Coaxial Revolution Counter



Peak Retaining



Long Stem



Dustproof



Jeweled



Low Force

