

Dial Indicator

SERIES 2 — Long Stroke Type



2050S



2052S



2330S-10



(Refer to page VIII for details.)



2050S-60
2050S
2050S-19



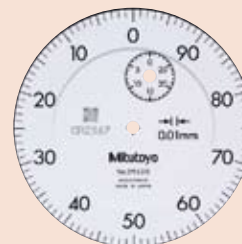
2052S
2052S-19



2330S-10



2320S-10



2952S



Shockproof type



Waterproof type



w/ damper at lowest rest point



Jeweled bearing type



w/ coaxial revolution counter



Reverse reading type

FEATURES

Metric

Order No.							
w/ lug	Flat-back						
2050S	2050SB	—	—	✓	—	—	—
2050S-60	2050SB-60	—	✓	—	—	—	—
2050S-19	2050SB-19	✓	—	✓	✓	—	—
2320S-10	2320SB-10	—	—	✓	✓	✓	—
2052S	2052SB	—	—	✓	—	—	—
2052S-19	2052SB-19	✓	—	✓	✓	—	—
2330S-10	2330SB-10	—	—	✓	✓	✓	—
2952S	2952SB	—	—	✓	—	—	✓

Inch

Order No.							
w/ lug	Flat-back						
2416S	2416SB	—	—	—	—	—	—
2416S-06	2416SB-06	—	—	—	—	—	—
2416S-10	2416SB-10	—	—	—	✓	—	—
2417S	2417SB	—	—	—	—	—	—
2424S-19	2424SB-19	✓	—	—	✓	—	✓
2776S	2776SB	—	—	—	—	—	—
2904S	2904SB	—	—	✓	—	—	—

Optional Accessories

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

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	2050S	2050SB	20mm (1mm)	±20µm	7µm	10µm	±15µm	5µm	±0-100	2.0N or less
0.01mm	2050S-60	2050SB-60	20mm (1mm)	±20µm	7µm	10µm	±15µm	5µm	±0-100	2.5N or less
0.01mm	2050S-19	2050SB-19	20mm (1mm)	±20µm	7µm	10µm	±15µm	5µm	±0-100	2.0N or less
0.01mm	2320S-10	2320SB-10	20mm (1mm)	±20µm	7µm	10µm	±15µm	5µm	±0-100	2.0N or less
0.01mm	2052S	2052SB	30mm (1mm)	±25µm	7µm	14µm	±18µm	5µm	±0-100	2.5N or less
0.01mm	2052S-19	2052SB-19	30mm (1mm)	±25µm	7µm	14µm	±18µm	5µm	±0-100	2.5N or less
0.01mm	2330S-10	2330SB-10	30mm (1mm)	±25µm	7µm	14µm	±18µm	5µm	±0-100	2.5N or less
0.01mm	2952S	2952SB	30mm (1mm)	±25µm	7µm	14µm	±18µm	5µm	100-0	2.5N or less

* 2050S-60 and 2050SB-60 are waterproof types that use a rubber bellows to cover the stem.
Please note that the outer diameter of the bellows (ø9.5) is larger than that of the stem (ø8).

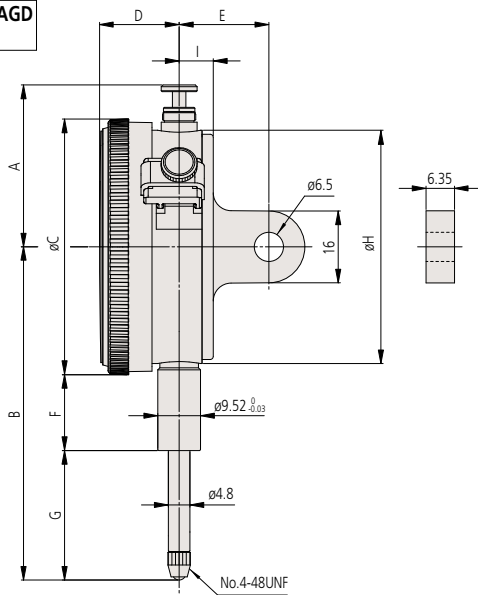
Inch

ANSI/AGD type

Graduation	Order No.		Range (range/rev)	Accuracy		Repeat-ability	Dial reading	Measuring force
	w/ lug	Flat-back		First 1 Rev / 2.5 Rev / 10 Rev	Retrace			
.001"	2416S	2416SB	1" (.1")	±.001" / ±.001" / ±.002"	.0002"	±.0002"	±0-100	1.8N or less
.001"	2416S-06	2416SB-06	1" (.1")	±.001" / ±.001" / ±.002"	.0002"	±.0002"	±0-100	1.8N or less
.001"	2416S-10	2416SB-10	1" (.1")	±.001" / ±.001" / ±.002"	.0002"	±.0002"	±0-100	1.8N or less
.001"	2417S	2417SB	1" (.1")	±.001" / ±.001" / ±.002"	.0002"	±.0002"	0-50-0	1.8N or less
.001"	2424S-19	2424SB-19	2" (.1")	±.001" / ±.001" / ±.002" / ±.003" (First 20Rev)	.00033"	±.0002"	±0-100	2.5N or less
.0005"	2776S	2776SB	1" (.05")	±.0005" / ±.0005" / ±.0015"	.0002"	±.0001"	±0-50	1.8N or less
.001"	2904S	2904SB	1" (.1")	±.001" / ±.001" / ±.002"	.0002"	±.0002"	100-0	1.8N or less

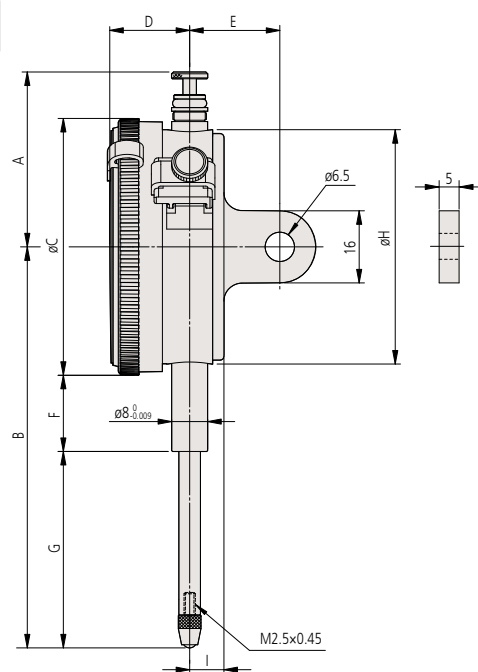
DIMENSIONS

ANSI/AGD Type



Order No.	A	B	C	D	E	F	G	H	I
2416S	38.9	76.8	57	17.7	19	13.6	34.7	52	7.6
2416S-06	38.9	76.8	57	17.7	19	13.6	34.7	52	7.6
2416S-10	38.9	76.8	57	17.7	19	13.6	34.7	52	7.6
2417S	38.9	76.8	57	17.7	19	13.6	34.7	52	7.6
2424S-19	118	142.5	57	17.7	20.9	54.3	59.7	52	9.5
2776S	38.9	76.8	57	17.7	19	13.6	34.7	52	7.6
2904S	38.9	76.8	57	17.7	19	13.6	34.7	52	7.6

ISO/JIS Type



Order No.	A	B	C	D	E	F	G	H	I
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

Unit: mm