

DIAL INDICATORS/INCH

Dial Indicators / Group 2 Inch

Inch-ANSI Standard (Stem Diameter 3/8")



2803F-10

Graduation	Total Range	Order No.	Range Per Rev.	Dial Reading	Accuracy 2-1/3 Rev.	Accuracy Total Range	Features
.0001"	.02"	2937F-10	.008"	0-4-0	±.0001"	±.0001"	[High Precision] [Jeweled]
		2938F-10	.008"	0-8	±.0001"	±.0001"	[High Precision] [Jeweled]
.025"	.01"	2802F-10	.01"	0-10	±.0001"	±.0002"	[High Precision] [Jeweled]
		2802F-60	.01"	0-10	±.0001"	±.0002"	[High Precision] [Jeweled] [Shockproof]
		2803F-10	.01"	0-5-0	±.0001"	±.0002"	[High Precision] [Jeweled]
		2803F-60	.01"	0-5-0	±.0001"	±.0002"	[High Precision] [Jeweled] [Shockproof]
.05"	.01"	2804F-10	.01"	0-10	±.0001"	±.0002"	[High Precision] [Jeweled]
		2805F-10	.01"	0-5-0	±.0001"	±.0002"	[High Precision] [Jeweled]
		2805F-80	.01"	0-5-0	±.0001"	±.0002"	[High Precision] [Jeweled] [Shockproof]
		2905F-10	.01"	10-0	±.0001"	±.0002"	[High Precision] [Jeweled]
.1"	.01"	2923F-10	.01"	0-5-0	±.0001"	±.0002"	[High Precision] [Jeweled]
		2806F-10	.01"	0-10	±.0001"	±.0003"	[High Precision] [Jeweled]
.25"	.01"	2806F-60	.01"	0-10	±.0001"	±.0003"	[High Precision] [Jeweled] [Shockproof]
		2356F-50	.01"	0-10	±.0002"	±.0005"	[High Precision] [Jeweled]
.5"	.01"	2358F-50	.01"	0-10	±.0002"	±.0008"	[High Precision] [Jeweled]
		2600F-10	.01"	0-10	±.00025"	±.00025"	[High Precision] [Jeweled]
.00025"	.025"	2601F-10	.01"	0-5-0	±.00025"	±.00025"	[High Precision] [Jeweled]
		2470F-50	.02"	0-20	±.00025"	±.00025"	[High Precision] [Jeweled]
.05"	.02"	2471F-50	.02"	0-10-0	±.00025"	±.00025"	[High Precision] [Jeweled]
		2476F-60	.02"	0-20	±.00025"	±.00025"	[High Precision] [Jeweled] [Shockproof]
.0005"	.05"	2500F-10	.02"	0-20	±.0005"	±.0005"	[High Precision] [Jeweled]
		2501F-10	.02"	0-10-0	±.0005"	±.0005"	[High Precision] [Jeweled]
.075"	.03"	2570F-10	.03"	0-30	±.0005"	±.0005"	[High Precision] [Jeweled]
		2570F-60	.03"	0-30	±.0005"	±.0005"	[High Precision] [Jeweled] [Shockproof]
		2571F-10	.03"	0-15-0	±.0005"	±.0005"	[High Precision] [Jeweled]
		2571F-60	.03"	0-15-0	±.0005"	±.0005"	[High Precision] [Jeweled] [Shockproof]
.1"	.04"	2670F	.04"	0-40	±.0005"	±.0005"	[High Precision] [Jeweled]
		2670F-10	.04"	0-40	±.0005"	±.0005"	[High Precision] [Jeweled]
		2671F	.04"	0-20-0	±.0005"	±.0005"	[High Precision] [Jeweled]
		2671F-10	.04"	0-20-0	±.0005"	±.0005"	[High Precision] [Jeweled] [Shockproof]
.125"	.05"	2506F	.05"	0-50	±.0005"	±.0005"	[High Precision] [Jeweled]
		2506F-10	.05"	0-50	±.0005"	±.0005"	[High Precision] [Jeweled] [Shockproof]
		2507F	.05"	0-25-0	±.0005"	±.0005"	[High Precision] [Jeweled]
		2507F-10	.05"	0-25-0	±.0005"	±.0005"	[High Precision] [Jeweled] [Shockproof]
		2906F	.05"	50-0	±.0005"	±.0005"	[High Precision] [Jeweled] [One Revolution]
.3"	.05"	2922F	.05"	0-25-0	±.0005"	±.0005"	[High Precision] [Jeweled] [One Revolution]
		2576F-60	.03"	0-30	±.0005"	±.001"	[High Precision] [Jeweled] [Shockproof]
.4"	.04"	2675F	.04"	0-20-0	±.0005"	±.0015"	[High Precision] [Jeweled]
		2514F	.05"	0-50	±.0005"	±.0015"	[High Precision] [Jeweled]
.5"	.05"	2514F-60	.05"	0-50	±.0005"	±.0015"	[High Precision] [Jeweled] [Shockproof]
		2776F	.05"	0-50	±.0005"	±.002"	[High Precision] [Jeweled]
1"	.05"	2776F-60	.05"	0-50	±.0005"	±.002"	[High Precision] [Jeweled] [Shockproof]




























































[High Precision Type]	[Reverse Reading]	[Balanced Dial]	[Continuous Dial]	[One Revolution]
[Damper at Lowest Rest Point]	[Shockproof]	[Adjustable Hand]	[Waterproof]	[Double Scale Spacing]
[Coaxial Revolution Counter]	[Peak Retaining]	[2X Long Stem]	[Dustproof]	[Jeweled] [Low Force]

DIAL INDICATORS/INCH

Dial Indicators / Group 2 Inch

Specifications

















Inch-ANSI Standard (Stem Diameter 3/8")

Graduation	Total Range	Order No.	Range Per Rev.	Dial Reading	Accuracy 2-1/3 Rev.	Accuracy Total Range	Features
.001"	.05"	2400F-10	.02"	0-20	±.0005"	±.001"	 
		2401F-10	.02"	0-10-0	±.0005"	±.001"	 
	.1"	2404F-10	.04"	0-40	±.0005"	±.001"	 
		2405F-10	.04"	0-20-0	±.0005"	±.001"	 
.125"	.05"	2780F	.05"	0-50	±.001"	±.001"	
		2780F-10	.05"	0-50	±.001"	±.001"	 
		2781F	.05"	0-25-0	±.001"	±.001"	
		2781F-10	.05"	0-25-0	±.001"	±.001"	 
.25"	.1"	2410F	.1"	0-100	±.001"	±.001"	
		2410F-10	.1"	0-100	±.001"	±.001"	 
		2410F-60	.1"	0-100	±.001"	±.001"	 
		2919F-10	.1"	0-100	±.001"	±.001"	 
		2411F	.1"	0-50-0	±.001"	±.001"	
		2411F-10	.1"	0-50-0	±.001"	±.001"	 
		2920F-10	.1"	0-50-0	±.001"	±.001"	 
.4"	.1"	2412F	.1"	0-100	±.001"	±.001"	
		2412F-60	.1"	0-100	±.001"	±.001"	 
		2412F-80	.1"	0-100	±.001"	±.001"	 
		2413F	.1"	0-50-0	±.001"	±.001"	
		2903F	.1"	100-0	±.001"	±.001"	
.5"	.1"	2414F	.1"	0-100	±.001"	±.001"	
		2414F-10	.1"	0-100	±.001"	±.001"	 
		2414F-60	.1"	0-100	±.001"	±.001"	 
		2915F-10	.1"	0-100	±.001"	±.001"	 
		2415F	.1"	0-50-0	±.001"	±.001"	
		2415F-10	.1"	0-50-0	±.001"	±.001"	 
		2415F-60	.1"	0-50-0	±.001"	±.001"	 
		2918F-10	.1"	0-50-0	±.001"	±.001"	 
		1"	.1"	2416F	.1"	0-100	±.001"
2416F-06	.1"			0-100	±.001"	±.002"	
2416F-10	.1"			0-100	±.001"	±.002"	 
2416F-60	.1"			0-100	±.001"	±.002"	 
2417F	.1"			0-50-0	±.001"	±.002"	
2904F	.1"			100-0	±.001"	±.002"	
2"	2424-10	.1"	0-100	±.001"	±.003"	   	
.01"	1"	2204F	1"	0-1000	-	±.005"	

The measuring force for all of the above indicators is 1.5N or less, except for the following: **2424-10**; 2.0N or less.

The conversion factor between Newton force and gram force is 1N=101.94gf.

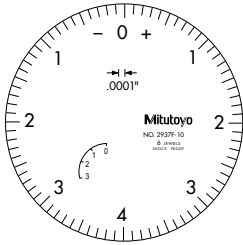
Lug back is standard; for flat-back version add 'B' to the order number, e.g. **2937FB-10**. All waterproof indicators: 3.0N or less.

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

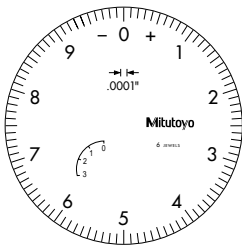
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Dial Indicator Faces

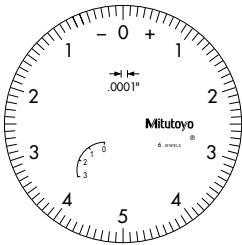
Group 2 – Inch



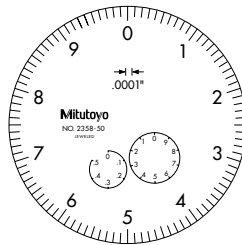
2937F-10



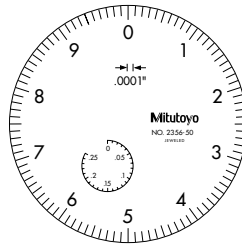
2802F-10



2803F-10



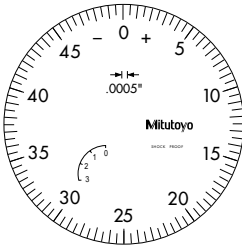
2358-50



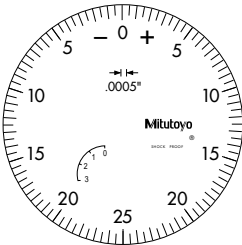
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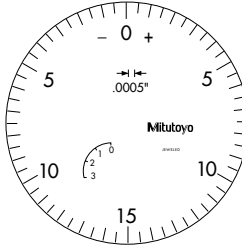
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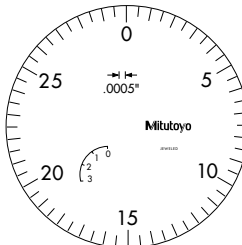
2506F



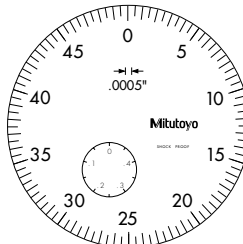
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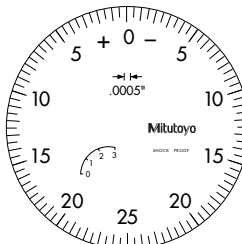
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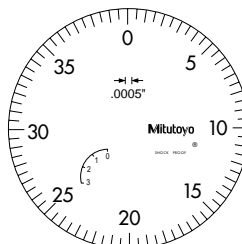
2570F-10



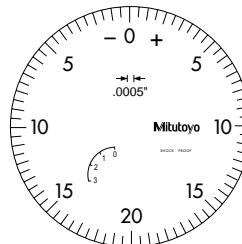
2514F



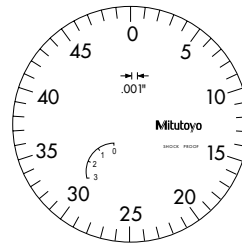
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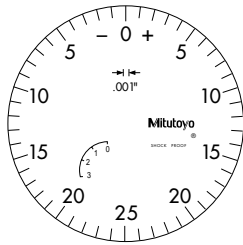
2670F



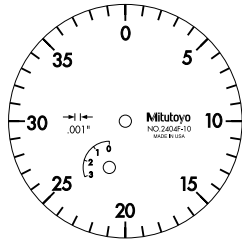
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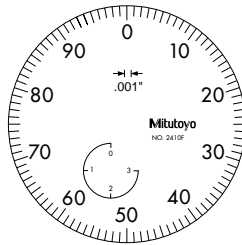
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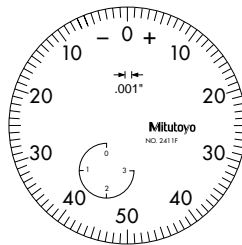
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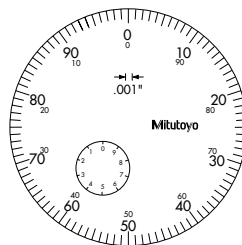
2404F-10



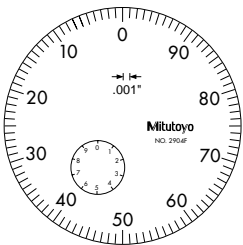
2410F



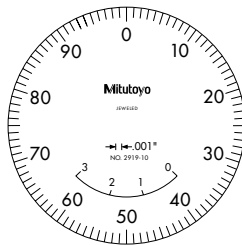
2411F



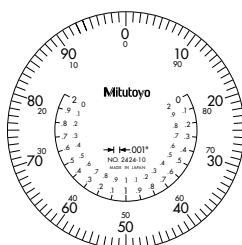
2416F, 2416F-10, 2416F-60



2904F

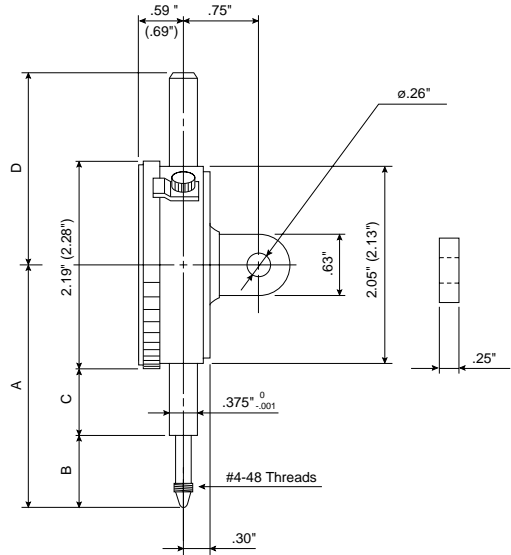
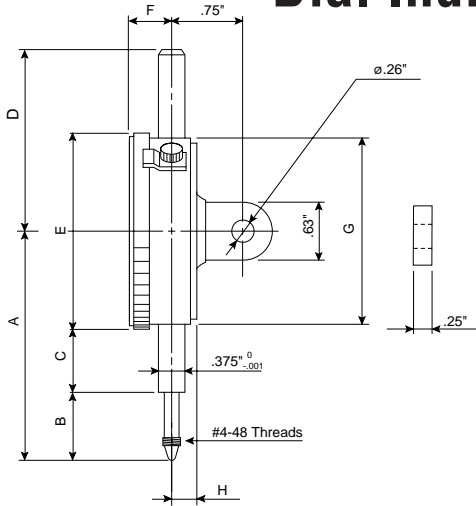


2919F-10



2424-10

Dial Indicators / Group 2 Inch



Dimensions

Order No.	A	B	C	D	E	F	G	H
2937F-10	2.07"	.39"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2938F-10	2.07"	.39"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2802F-10	2.07"	.39"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2802F-60	2.15"	.75"	.31"	1.55"	2.19"	.59"	2.05"	.30"
2803F-10	2.07"	.39"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2803F-60	2.15"	.75"	.31"	1.55"	2.19"	.59"	2.05"	.30"
2804F-10	2.07"	.39"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2805F-10	2.07"	.39"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2805F-80*	2.07"	.39"	.59"	2.32"	2.19"	.61"	2.05"	.30"
2905F-10	2.07"	.39"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2923F-10	2.07"	.39"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2806F-10	2.14"	.46"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2806F-60	2.15"	.79"	.27"	1.55"	2.19"	.59"	2.05"	.30"
2356-50	2.28"	.61"	.53"	1.84"	2.28"	.69"	2.13"	.35"
2358-50	2.52"	.85"	.53"	2.04"	2.28"	.69"	2.13"	.35"
2600F-10	2.07"	.39"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2601F-10	2.07"	.39"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2470-50	2.07"	.40"	.53"	1.84"	2.28"	.69"	2.13"	.35"
2471-50	2.07"	.40"	.53"	1.84"	2.28"	.69"	2.13"	.35"
2476F-60	2.26"	.89"	.27"	1.78"	2.19"	.59"	2.05"	.30"
2500F-10	2.07"	.39"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2501F-10	2.07"	.39"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2570F	2.11"	.43"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2570F-10	2.11"	.43"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2570F-60	2.11"	.74"	.27"	1.78"	2.19"	.59"	2.05"	.30"
2571F	2.11"	.43"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2571F-10	2.11"	.43"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2571F-60	2.11"	.74"	.27"	1.78"	2.19"	.59"	2.05"	.30"
2576F-60	2.33"	.97"	.27"	1.78"	2.19"	.59"	2.05"	.30"
2670F	2.12"	.44"	.59"	1.90"	2.19"	.59"	2.05"	.30"
2670F-10	2.12"	.44"	.59"	1.90"	2.19"	.59"	2.05"	.30"
2671F	2.12"	.44"	.59"	1.90"	2.19"	.59"	2.05"	.30"
2671F-10	2.12"	.44"	.59"	1.90"	2.19"	.59"	2.05"	.30"
2675F*	2.45"	.77"	.59"	1.46"	2.19"	.59"	2.05"	.30"
2506F	2.15"	.47"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2506F-10	2.15"	.47"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2507F	2.15"	.47"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2507F-10	2.15"	.47"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2906F	2.15"	.47"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2922F	2.15"	.47"	.59"	1.78"	2.19"	.59"	2.05"	.30"
2514F	2.55"	.87"	.59"	1.46"	2.19"	.59"	2.05"	.30"
2514F-60	2.56"	1.20"	.27"	1.78"	2.19"	.59"	2.05"	.30"
2776F*	3.05"	1.37"	.59"	1.46"	2.19"	.59"	2.05"	.30"
2776F-60	3.18"	1.81"	.27"	2.37"	2.19"	.59"	2.05"	.30"

*Denotes the indicator does not feature a cap (dimension 'D' is taken to the screw top, which rises with the spindle).

Dimensions

Order No.	A	B	C	D
2400F-10	2.07"	.39"	.59"	1.78"
2401F-10	2.07"	.39"	.59"	1.78"
2404F-10	2.12"	.44"	.59"	1.90"
2405F-10	2.12"	.44"	.59"	1.90"
2780F	2.15"	.47"	.59"	1.78"
2780F-10	2.15"	.47"	.59"	1.78"
2781F	2.15"	.47"	.59"	1.78"
2781F-10	2.15"	.47"	.59"	1.78"
2410F	2.30"	.62"	.59"	1.55"
2410F-10	2.30"	.62"	.59"	1.55"
2410F-60	2.30"	.94"	.27"	1.55"
2919F-10*	2.51"	.83"	.59"	1.98"
2411F	2.30"	.62"	.59"	1.55"
2411F-10	2.30"	.62"	.59"	1.55"
2920F-10	2.51"	.83"	.59"	1.98"
2412F*	2.45"	.77"	.59"	1.46"
2412F-60	2.45"	1.09"	.27"	1.78"
2412F-80*	2.45"	.77"	.59"	2.32"
2413F*	2.45"	.77"	.59"	1.46"
2903F*	2.45"	.77"	.59"	1.46"
2414F*	2.56"	.88"	.59"	1.46"
2414F-10*	2.56"	.88"	.59"	1.46"
2414F-60	2.56"	1.20"	.27"	1.78"
2915F-10*	2.51"	.83"	.59"	1.98"
2415F*	2.56"	.88"	.59"	1.46"
2415F-10*	2.56"	.88"	.59"	1.46"
2415F-60	2.56"	1.20"	.27"	1.78"
2918F-10*	2.51"	.83"	.59"	1.98"
2416F*	3.05"	1.37"	.59"	1.46"
2416F-06*	3.05"	1.37"	.59"	1.46"
2416F-10*	3.05"	1.37"	.59"	1.46"
2416F-60*	3.18"	1.81"	.27"	2.37"
2417F*	3.05"	1.37"	.59"	1.46"
2904F*	3.05"	1.37"	.59"	1.46"
2424-10	5.47"	2.33"	2.04"	4.67"
2204F*	3.05"	1.37"	.59"	1.46"

*Denotes the indicator does not feature a cap (dimension 'D' is taken to the screw top, which rises with the spindle).

DIAL INDICATORS/METRIC

Dial Indicators / Group 2 Metric ANSI



2046F-01

Specifications

Metric-ANSI Standard (Stem Diameter 3/8" with yellow dial face)

Graduation	Total Range	Order No.	Range Per Rev.	Dial Reading	Accuracy 2-1/3 Rev.	Total Rev	Features		
0.001mm	1mm	2109F-11	0.2mm	0-100-0	±0.002mm	±0.003mm	[Icon]		
	5mm	2119-51	0.2mm	0-10-0	±0.005mm	±0.008mm	[Icon]		
0.002mm	0.5mm	2010F-11	0.2mm	0-20	±0.002mm		[Icon]		
		2010F-61	0.2mm	0-20	±0.002mm		[Icon]		
		2011F-11	0.2mm	0-10-0	±0.002mm		[Icon]		
0.005mm	1.25mm	2011F-61	0.2mm	0-10-0	±0.002mm		[Icon]		
		2120F-11	0.5mm	0-50	±0.005mm		[Icon]		
		2120-71	0.5mm	0-50	±0.005mm		[Icon]		
		2121F-11	0.5mm	0-25-0	±0.005mm		[Icon]		
0.01mm	2.5mm	2230F-01	1mm	0-100	±0.010mm		[Icon]		
		2230F-11	1mm	0-100	±0.010mm		[Icon]		
		2231F-01	1mm	0-50-0	±0.010mm		[Icon]		
		2231F-11	1mm	0-50-0	±0.010mm		[Icon]		
	5mm	2044F-01	1mm	0-100	±0.010mm	±0.010mm		[Icon]	
		2044F-61	1mm	0-100	±0.010mm	±0.010mm		[Icon]	
		2045F-01	1mm	0-50-0	±0.010mm	±0.010mm		[Icon]	
		2045F-61	1mm	0-50-0	±0.010mm	±0.010mm		[Icon]	
		10mm	2046F-01	1mm	0-100	±0.010mm	±0.013mm		[Icon]
			2046F-11	1mm	0-100	±0.010mm	±0.013mm		[Icon]
	2046F-61		1mm	0-100	±0.010mm	±0.013mm		[Icon]	
	2047F-01		1mm	0-50-0	±0.010mm	±0.013mm		[Icon]	
	20mm	2047F-11	1mm	0-50-0	±0.010mm	±0.013mm		[Icon]	
		2048F-01	1mm	0-100	±0.010mm	±0.015mm		[Icon]	
		2048F-11	1mm	0-100	±0.010mm	±0.015mm		[Icon]	
		2902F-01	1mm	100-0	±0.010mm	±0.013mm		[Icon]	
		25mm	2050F-01	1mm	0-100	±0.010mm	±0.020mm		[Icon]
			2050F-11	1mm	0-100	±0.010mm	±0.020mm		[Icon]
		0.02mm	5mm	2056F-01	1mm	0-100	±0.010mm	±0.025mm	[Icon]
				2032F-11	2mm	0-200	±0.020mm		[Icon]
		2033F-11	2mm	0-100-0	±0.020mm		[Icon]		

The measuring force for all of the above indicators is 1.5N or less except for the following:

2050F-01, 2050F-11, 2056F-01; 2.0N or less, **2045F-61, 2046F-61**; 2.5N or less.

The conversion factor between Newton force and gram force is 1N=101.94gf.

Lug back is standard: for flat back version of indicator add 'B' to the order number, e.g. **2046FB-11**.

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

Dial Indicators / Group 2

Dimensions

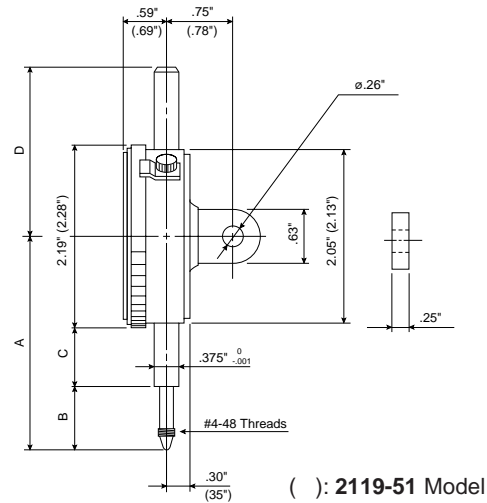
ANSI Standard

Metric ANSI

Order No.	A	B	C	D
2109F-11	2.04"	.36"	.59"	1.78"
2119-51	2.22"	.55"	.53"	1.84"
2010F-11	2.04"	.36"	.59"	1.78"
2010F-61	2.15"	.75"	.31"	1.55"
2011F-11	2.04"	.36"	.59"	1.78"
2011F-61	2.15"	.75"	.31"	1.55"
2120F-11	2.06"	.38"	.59"	1.55"
2120-71	2.09"	.70"	.24"	1.84"
2121F-11	2.06"	.38"	.59"	1.55"
2121-71	2.09"	.70"	.24"	1.84"
2230F-01	2.15"	.47"	.59"	1.78"
2230F-11	2.15"	.47"	.59"	1.78"
2231F-01	2.15"	.47"	.59"	1.78"
2231F-11	2.15"	.47"	.59"	1.78"
2044F-01	2.24"	.56"	.59"	1.78"
2044F-61	2.24"	.88"	.27"	1.78"
2045F-01	2.24"	.56"	.59"	1.78"
2045F-61	2.24"	.88"	.27"	1.78"
2046F-01	2.45"	.77"	.59"	1.90"
2046F-11	2.45"	.77"	.59"	1.90"
2046F-61	2.45"	1.09"	.27"	1.79"
2047F-01	2.45"	.77"	.59"	1.90"
2047F-11	2.45"	.77"	.59"	1.90"
2048F-01	2.40"	.71"	.59"	1.87"
2048F-11	2.40"	.71"	.59"	1.87"
2902F-01	2.45"	.77"	.59"	1.90"
2050F-01*	2.87"	1.19"	.59"	1.46"
2050F-11*	2.87"	1.19"	.59"	1.46"
2056F-01*	3.05"	1.37"	.59"	1.46"
2032F-11	2.24"	.56"	.59"	1.78"
2033F-11	2.24"	.56"	.59"	1.78"

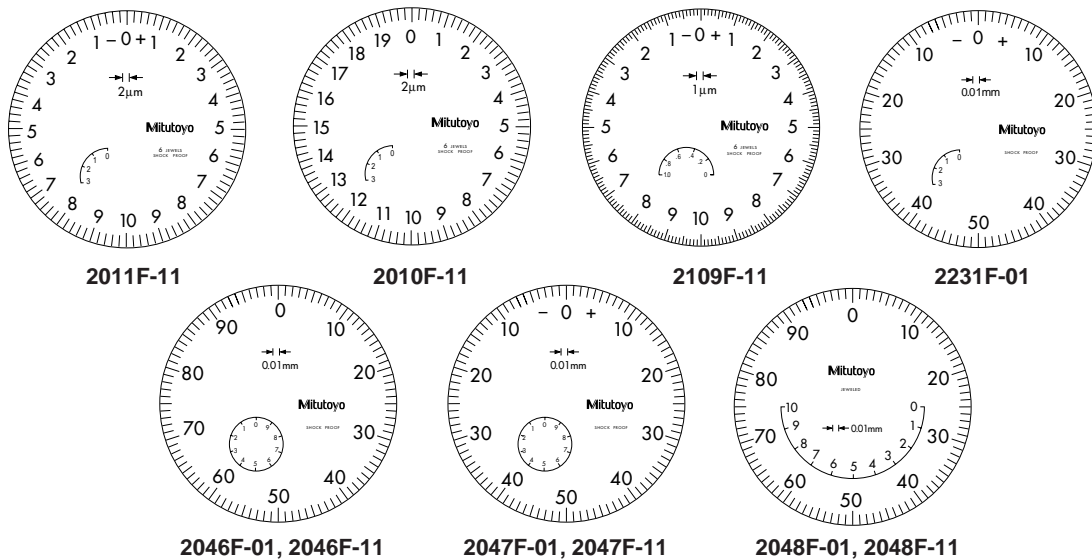
*Denotes the indicator does not feature a cap (dimension 'D' is taken to the screw top, which rises with the spindle).

ANSI Standard



Dial Indicator Faces

Group 2 – Metric ANSI



DIAL INDICATORS/METRIC

Dial Indicators / Group 2 Metric Standard

Specifications

Metric-ISO/JIS Standard

(Stem Diameter 8mm, Limit Hand is standard accessory)



2046F

Graduation	Total Range	Order No.	Range Per Rev.	Dial Reading	Accuracy	Features
0.001mm	1mm	2110F	0.1mm	0-100	±0.005mm	[Icon]
		2110F-60	0.1mm	0-100	±0.005mm	[Icon]
		2109F	0.2mm	0-100-0	±0.005mm	[Icon]
	2mm	2109F-60	0.2mm	0-100-0	±0.005mm	[Icon]
		2113F	0.2mm	0-100-0	±0.007mm	[Icon]
		2118F	0.2mm	0-100-100	±0.01mm	[Icon]
0.005mm	5mm	2119F	0.2mm	0-100-0	±0.01mm	[Icon]
		2124F	0.5mm	0-50	±0.012mm	[Icon]
0.01mm	5mm	2125F	0.5mm	0-25-0	±0.012mm	[Icon]
		2044F	1mm	0-100	±0.012mm	[Icon]
0.01mm	10mm	2044FE-09	1mm	0-100	±0.013mm	[Icon]
		2044F-60	1mm	0-100	±0.012mm	[Icon]
		2045FE	1mm	0-50-0	±0.012mm	[Icon]
		2045F-60	1mm	0-50-0	±0.012mm	[Icon]
		2046F	1mm	0-100	±0.013mm	[Icon]
		2046FE	1mm	0-100	±0.013mm	[Icon]
		2046F-60	1mm	0-100	±0.013mm	[Icon]
	20mm	2046FE-09	1mm	0-100	±0.015mm	[Icon]
		2046F-69	1mm	0-100	±0.015mm	[Icon]
		2046FE-10	1mm	0-100	±0.015mm	[Icon]
	30mm	2047FE	1mm	0-50-0	±0.013mm	[Icon]
		2310FE	1mm	0-100	±0.015mm	[Icon]
		2902FE	1mm	100-0	±0.013mm	[Icon]
		2050F-60	1mm	0-100	±0.02mm	[Icon]
2050FE		1mm	0-100	±0.02mm	[Icon]	
30mm	2320FE	1mm	0-100	±0.02mm	[Icon]	
	2052FE	1mm	0-100	±0.025mm	[Icon]	
	2330FE	1mm	0-100	±0.025mm	[Icon]	
		2952FE	1mm	100-0	±0.025mm	[Icon]

The measuring forces for all of the above indicators is 1.5N or less, except for the following: 2119F, 2125F, 2044F; 0.5N or less, 2046FE-10; 0.8N or less, 2050FE, 2320FE; 2.0N or less, 2052FE, 2330FE, 2952FE; 2.2N or less, 2110F-60, 2109F-60, 2044F-60, 2045F-60, 2046F-60, 2046F-69, 2050F-60; 2.5N or less.

The conversion factor between Newton force and gram force is 1N=101.94gf. Lug back is standard; for flat back version add 'B' to the order number, e.g. 2046FB.

Accuracy includes uncertainty k=2.

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

Dial Indicators / Group 2 Metric Standard

Dimensions

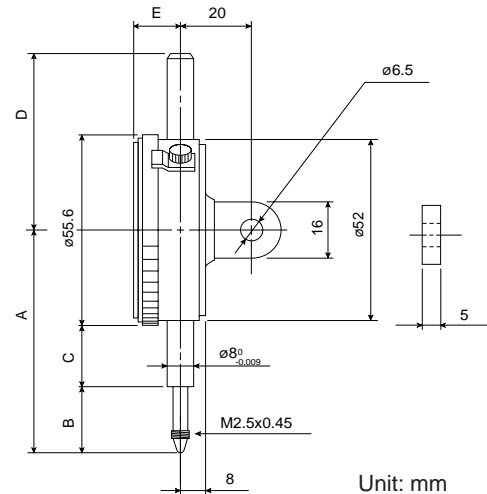
Metric Standard

Unit: mm

Order No.	A	B	C	D	E
2110F	66.5	21.2	17.5	46.8	17
2110F-60	67.5	26.7	13	46.8	17
2109F	60.3	15	17.5	46.8	17
2109F-60	65	24.2	13	46.8	17
2113F	60.8	15.5	17.5	46.8	17
2118F	60	14.7	17.5	46.8	17
2119F	60	14.7	17.5	46.8	17
2124F	60	14.7	17.5	46.8	17
2044F	64.8	19.5	17.5	46.8	16.5
2044FE-09	64.8	19.5	17.5	46.8	16.5
2044F-60	64.8	25	13	46.8	16.5
2045FE	64.8	19.5	17.5	46.8	16.5
2045F-60	65.8	25	13	46.8	16.5
2046F	64.8	19.5	17.5	46.8	16.5
2046FE	64.8	19.5	17.5	46.8	16.5
2046F-60	69.5	28.7	13	46.8	16.5
2046FE-09	64.8	19.5	17.5	46.8	16.5
2046F-69	69.5	28.7	13	46.8	16.5
2046FE-10	64.8	19.5	17.5	46.8	17
2047FE	64.8	19.5	17.5	46.8	16.5
2310FE	64.8	19.5	17.5	46.8	17
2902FE	64.8	19.5	17.5	46.8	16.5
2050F-60	87	46.2	13	55.5	16.5
2050FE*	75	29.7	17.5	40	16.5
2320FE*	75	29.7	17.5	40	17
2052FE*	88.5	43	17.5	40	16.5
2330FE*	88.5	43	17.5	40	17
2952FE*	88.5	43	17.5	40	16.5

*Denotes the indicator does not feature a cap (dimension 'D' is taken to the screw top, which rises with the spindle).

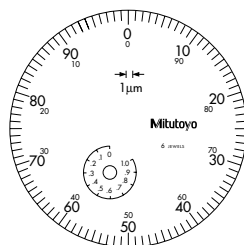
Metric Standard



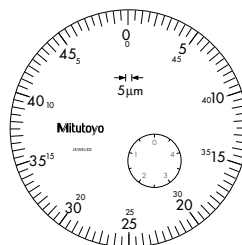
Unit: mm

Dial Indicator Faces

Group 2 – Metric Standard



2110F



2124F