



An inspection certificate is supplied as standard.
Refer to page U-11 for details.

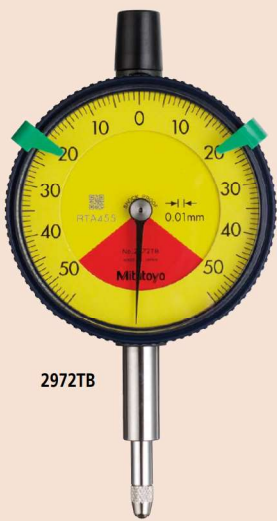
IP 43

Dial Indicators

Comparison measuring instruments which ensure high quality, high accuracy and reliability.

SERIES 2 — Standard One Revolution Type for Error-free Reading, Lightweight Type

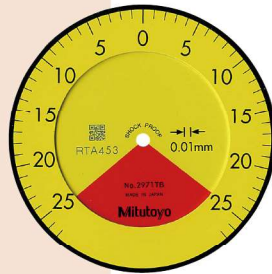
- Mitutoyo's unique shock-proof mechanism is incorporated, providing improved resistance to shock due to sudden spindle retraction caused by impact.
- This series has been developed to eliminate the possibility of reading errors due to miscounting multiple revolutions.
- The stem and spindle are made of high-strength quench-hardened stainless steel suitable for heavy-duty use.
- A carbide contact point is used.
- Application of a hard coating on the surface of the crystal makes the gage highly scratch- and chemical-resistant.
- Lightweight type (70 g).
- The dead zone in red indicates "accuracy not guaranteed".



2972TB



Balanced scale



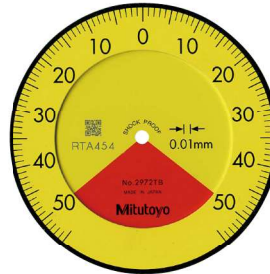
Graduation: 0.01 mm,
Measuring range: 0.5 mm

2971TB

- One revolution
- Shockproof
- Dustproof



Balanced scale



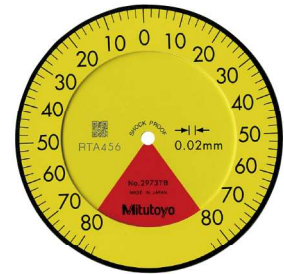
Graduation: 0.01 mm,
Measuring range: 1 mm

2972TB

- One revolution
- Shockproof
- Dustproof



Balanced scale



Graduation: 0.02 mm,
Measuring range: 1.6 mm

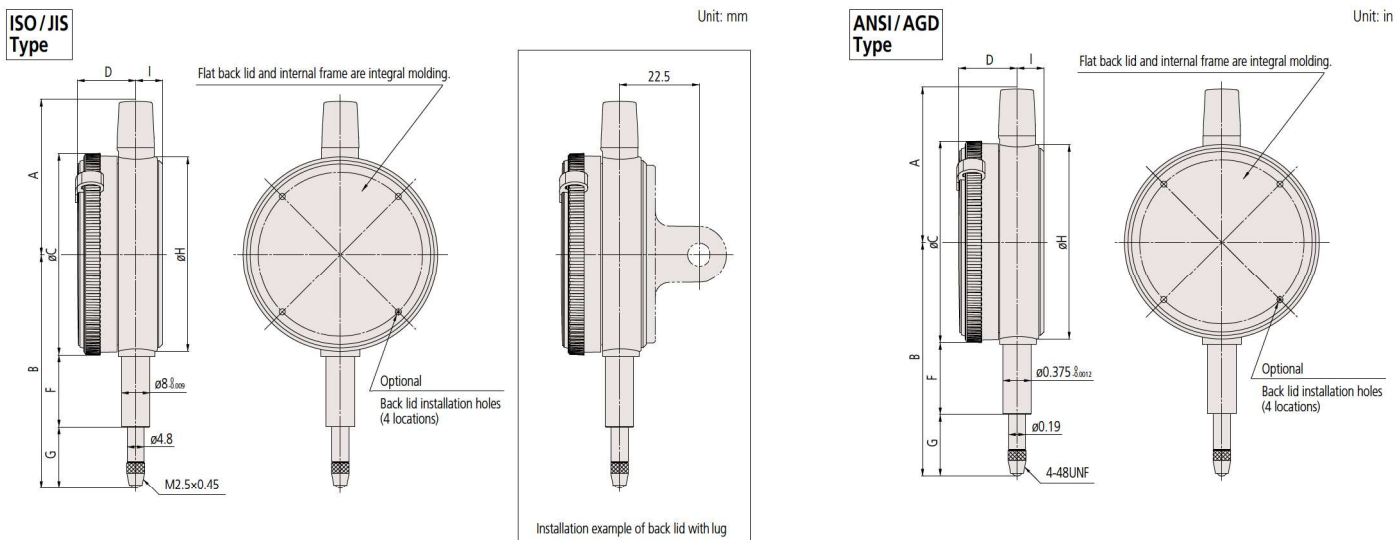
2973TB

- One revolution
- Shockproof
- Dustproof

Dial Indicators

Comparison measuring instruments which ensure high quality, high accuracy and reliability.

DIMENSIONS



Note 1: When installing an optional back (refer to page F-61 for details) 4 retaining screws must also be obtained (**546666**: Self-tapping screw only for plastic).

Do not apply a tightening torque of more than 20 N-cm in order to avoid stripping the screw threads.

Note 2: An optional lifting lever, release or bezel clamp cannot be installed.

Metric									
Order No.	A	B	C	D	F	G	H	I	Mass (g)
2971TB	43.2	65.6	57	16.5	21	16.8	55	7.6	70
2972TB	43.2	66	57	16.5	21	17.2	55	7.6	
2973TB	43.2	66.3	57	16.5	21	17.5	55	7.6	

Inch									
Order No.	A	B	C	D	F	G	H	I	Mass (g)
2976TB	1.70	2.55	2.24	0.65	0.80	0.63	2.17	0.30	70
2977TB	1.70	2.56	2.24	0.65	0.80	0.64	2.17	0.30	
2978TB	1.70	2.57	2.24	0.65	0.80	0.65	2.17	0.30	

Note: Refer to pages F-57 to F-60 for details of contact points.

FEATURES

Metric						
Order No.	Flat-back	10 0 10	10 0 10	10 0 10	10 0 10	10 0 10
2971TB	✓	✓	✓	✓	✓	✓
2972TB	✓	✓	✓	✓	✓	✓
2973TB	✓	✓	✓	✓	✓	✓

SPECIFICATIONS

Metric										ISO/JIS type	
Order 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				
—	2971TB	0.01	0.5 (0.7)	5	—	—	8	3	3	25-0-25	1.4 or less
—	2972TB	0.01	1 (1.4)	5	—	—	8	3	3	50-0-50	1.4 or less
—	2973TB	0.02	1.6 (2)	8	—	—	16	6	5	80-0-80	1.4 or less

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

Inch						
Order No.	Flat-back	10 0 10	10 0 10	10 0 10	10 0 10	10 0 10
2976TB	✓	✓	✓	✓	✓	✓
2977TB	✓	✓	✓	✓	✓	✓
2978TB	✓	✓	✓	✓	✓	✓

Inch					<div></div> ANSI/AGD type				
Order 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				
—	2976TB	0.0005	0.02 (0.028)	±0.0005/—/—	0.00016	±0.0001	10-0-10	1.4 or less	
—	2977TB	0.0005	0.04 (0.055)	±0.0005/—/—	0.00016	±0.0001	20-0-20	1.4 or less	
—	2978TB	0.001	0.06 (0.079)	±0.001/—/—	0.0002	±0.0002	30-0-30	1.4 or less	

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