



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

- The one revolution dial indicator (lightweight type) prevents the possibility of reading errors.
- Mitutoyo's unique shock-proof mechanism is incorporated, providing improved resistance to shock due to sudden spindle retraction caused by impact.
- Lightweight type (70 g).
- It is highly durable thanks to a hardened stainless-steel stem and spindle, carbide probe, and a large gear made of wear- and deformation-resistant materials.
- Application of an anti-reflective and hard surface coating improves scale visibility along with scratch and chemical resistance.
- The red dead zone in the middle of the dial face is separated from the bezel and doesn't cover the graduations. Therefore, users can always see the range where accuracy is not guaranteed even if the bezel is rotated.



SPECIFICATIONS

-	Metric ISO/JIS type										ANS	I/AGD type
	Code No.			D	1	Maximum permissible error (MPE) (µm)						
		w/lug Flat-back	Graduation (mm)	(range/rev)	Indication error				Repeat-	Dial	Measuring	
	w/lug				1/10 Rev	1/2 Rev	1 Rev	Measuring range	Hysteresis	ability	reading	force (N)
Ī	_	2971AB	0.01	0.5 (0.7)	5	_	_	8	3	3	25-0-25	1.4 or less
Ī	_	2972AB	0.01	1 (1.4)	5	_	_	8	3	3	50-0-50	1.4 or less
	_	2973AB	0.02	1.6 (2)	8			16	6	5	80-0-80	1.4 or less

Inch									
Code No.		Graduation	Range	Accuracy (in)		Repeat-	Dial reading	Measuring force (N)	
w/lug	4.)		(range/rev) (in)	First 1 Rev/2.5 Rev/10 Rev	Retrace	ability (in)			
_	2976AB	0.0005	0.02 (0.028)	±0.0005/—/—	0.00016	±0.0001	10-0-10	1.4 or less	
_	2977AB	0.0005	0.04 (0.055)	±0.0005/—/—	0.00016	±0.0001	20-0-20	1.4 or less	
_	2978AB	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.

Special specifications

Upon request, we can manufacture custom types with changed graduation numbers, graduation lines, dead zones, etc. Please contact your local Mitutoyo Sales Office for more information.

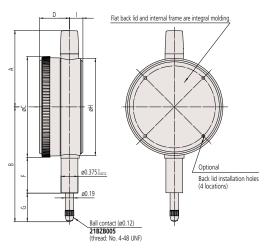


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DIMENSIONS

ISO/JIS Type Unit: mm Flat back lid and internal frame are integral molding ø8-8.009 Back lid installation holes (4 locations) M2.5×0.45 Installation example of back lid with lug

ANSI/AGD Type



Unit: in

Optional Accessory • Limit hand (2 pcs.): 21AZB195

Note 1: When installing an optional back (refer to pages 07-69 to 07-70 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.

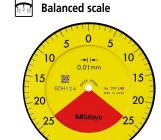
Note 2: An optional lifting lever, release or bezel clamp cannot be installed.

Metric	ı								
Code No.	А	В	С	D	F	G	Н	1	Mass (g)
2971AB	43.2	65.6	57	16.9	20.3	16.8	55	7.6	
2972AB	43.2	66	57	16.9	20.3	17.2	55	7.6	70
2973AB	43.2	66.3	57	16.9	20.3	17.5	55	7.6	

Inch Land									
Code No.	А	В	С	D	F	G	Н	- 1	Mass (g)
2976AB	1.70	2.55	2.24	0.67	0.80	0.63	2.17	0.30	
2977AB	1.70	2.56	2.24	0.67	0.80	0.64	2.17	0.30	70
2978AB	1.70	2.57	2.24	0.67	0.80	0.65	2.17	0.30	

Note: Refer to pages 07-63 to 07-68 for details of contact points.





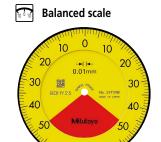
Graduation: 0.01 mm, Measuring range: 0.5 mm

2971AB

One revolution

Shockproof

Dustproof



Graduation: 0.01 mm, Measuring range: 1 mm 2972AB

Shockproof

Dustproof





Graduation: 0.02 mm, Measuring range: 1.6 mm

2973AB One revolution

Shockproof

Dustproof

FEATURES

Metric	ISO/JIS	type	A	NSI/AC	3D type
Code	No.	3		E	
w/lug	Flat-back	10 ⁰ 10	5 2		
_	2971AB	~	1	/	~
_	2972AB	~	1	/	~
_	2973AB	~	~	/	V

Inch	ı					
Code	No.				[·X]	
w/lug	Flat-back	10 0 10	>	5	[
_	2976AB	~	~	~	~	
_	2977AB	~	~	~	~	
_	2978AB	'	~	~	~	

