

# Inch Reading Precision Dial Gauges

Technical data for Inch Reading Precision Dial Gauges with metric stem-Ø and thread size

Page	Model	Reading	Range per revolution	Dial Reading	Range	Bezel-Ø	Stem-Ø	Special Feature
63	MU 28 ZO	.0005"	.020"	0–20	.140"	28 mm	8 mm h 6	
63	KZO 6 T	.0005"	.020"	0–20	.120"	32 mm	8 mm h 6	
–	KZO 4 T	.001"	.020"	0–20	.120"	40 mm	8 mm h 6	
–	KZO 4 R	.001"	.020"	0–20	.120"	40 mm	8 mm h 6	Back Plunger
–	KZO 4/5 SW	.001"	.100"	0–100	.200"	44.5 mm	8 mm h 6	Waterproof
–	ZO 2 T	.001"	.100"	0–100	.500"	58 mm	8 mm h 6	
–	ZO 2 S	.001"	.100"	0–100	.400"	58 mm	8 mm h 6	Shockproof
–	SI-90 Z	.001"	–	40–0–40	.080"	58 mm	8 mm h 6	Error Free
–	ZO 2/30 T	.001"	.100"	0–100	1.000"	58 mm	8 mm h 6	
–	ZO 2/50 T	.001"	.100"	0–100	2.000"	58 mm	8 mm h 6	
62	ZO 3 T	.0005"	.050"	0–50	.500"	58 mm	8 mm h 6	
62	ZO 3 S	.0005"	.050"	0–50	.400"	58 mm	8 mm h 6	Shockproof
–	ZO 3/30 T	.0005"	.050"	0–50	1.000"	58 mm	8 mm h 6	
–	ZO 3/50 T	.0005"	.050"	0–50	2.000"	58 mm	8 mm h 6	
–	ZO 3 R	.0005"	.050"	0–50	.120"	58 mm	8 mm h 6	Back Plunger
–	ZO 3/5 R	.0005"	.050"	0–50	.200"	58 mm	8 mm h 6	Back Plunger
–	ZO 3 SNW	.0005"	.050"	0–50	.400"	61.5 mm	8 mm h 6	Waterproof
–	GZ 80 T	.0005"	.050"	0–50	.500"	80 mm	8 mm h 6	
–	GZ 100 T	.0005"	.050"	0–50	.500"	100 mm	8 mm h 6	
–	KFZO T	.0001"	.010"	0–10	.040"	40 mm	8 mm h 6	
–	KFZO S	.0001"	.010"	0–10	.040"	40 mm	8 mm h 6	Shockproof
–	KFZO 1101	.00005"	.005"	0–50	.040"	40 mm	8 mm h 6	Shockproof, extra accurate movement
–	SI-914 ZO	.00005"	–	20–0–20	.004"	40 mm	8 mm h 6	Error Free, extra accurate movement
64	FZO T	.0001"	.010"	0–10	.040"	58 mm	8 mm h 6	
64	FZO 5 T	.0001"	.010"	0–10	.200"	58 mm	8 mm h 6	
–	FZO 1101	.00005"	.005"	0–50	.040"	58 mm	8 mm h 6	Shockproof, extra accurate movement
–	SI-915 ZO	.00005"	–	20–0–20	.004"	58 mm	8 mm h 6	Error Free, extra accurate movement
–	FZ 80 T	.0001"	.010"	0–10	.040"	80 mm	8 mm h 6	
–	FZ 80/5 T	.0001"	.010"	0–10	.200"	80 mm	8 mm h 6	

All models of the above table have a stem-diameter of 8 mm h 6 and a thread M 2.5. The Dial Gauges will be supplied with flat backs. A mounting lug is available at extra charge.

Inch Reading Dial Gauges are also available with measurements equivalent to the American Standard ANSI B89.1.10M-2001. These instruments have a stem-Ø of  $\frac{3}{8}$ " , the thread for the contact point is 4/48 UNF. For details concerning this Dial Gauge series please see the table on pages 65 and 66.







## Inch Dial Gauge FZO T

The carefully thought-out design, the use of selected components and materials as well as the movement perfected by precision engineering guarantee reliable measuring results and a long service life of our Precision Dial Gauges.

Spindle and stem are made of resistant stainless steel. The spindle is lapped.

Inch Dial Gauge FZO T	
Reading	.0001"
Range	.040"
Range per revolution	.010"
Bezel-Ø	58 mm
Stem-Ø	8 h 6
Dimensions and accuracy according to	DIN EN ISO 463 / manufacturing standard 0.0800.9.0005
Initial measuring force	1.3 N ± 20%
Dimensioned drawing	page 64



## Inch Dial Gauge FZO 5 T

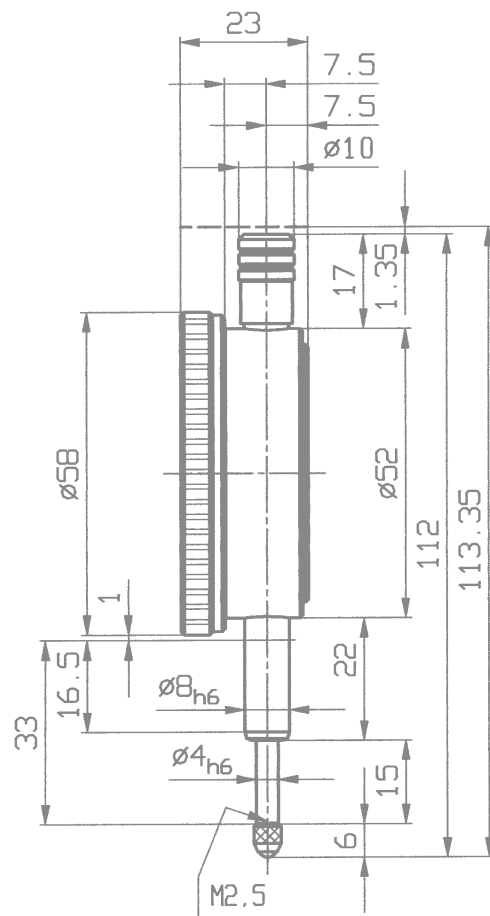
The carefully thought-out design, the use of selected components and materials as well as the movement perfected by precision engineering guarantee reliable measuring results and a long service life of our Precision Dial Gauges.

Spindle and stem are made of resistant stainless steel. The spindle is lapped.

Inch Dial Gauge FZO 5 T	
Reading	.0001"
Range	.200"
Range per revolution	.010"
Bezel-Ø	58 mm
Stem-Ø	8 h 6
Dimensions and accuracy according to	DIN EN ISO 463 / manufacturing standard 0.0800.9.0005
Initial measuring force	1.4 N ± 20%
Dimensioned drawing	on request



Model shown: FZO T



Special fittings:

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# Inch Reading Precision Dial Gauges to ANSI Standard



## Technical data for Inch Reading Precision Dial Gauges to ANSI Standard

Page	Model	Reading	Range per revolution	Dial Reading	Range	Bezel-Ø	Stem-Ø	Special Feature
-	KZ 6 T	.0005"	.020"	0-20	.120"	1 13/50"	3/8"	
67	KZ 4/5 Sb	.001"	.100"	0-50-0	.200"	1 9/16"	3/8"	Shockproof
-	KZ 4/5 Sb FS	.001"	.100"	0-50-0	.200"	1 9/16"	3/8"	Shockproof, fixing screw
-	KZ 4/5 Sb LB	.001"	.100"	0-50-0	.200"	1 9/16"	3/8"	Shockproof, lug back
72	KZ 4/5 Rb	.001"	.020"	0-10-0	.200"	1 9/16"	3/8"	Back plunger
-	KZ 4/5 Rb FS	.001"	.020"	0-10-0	.200"	1 9/16"	3/8"	Back plunger, fixing screw
-	KZ 4 SI	.001"	-	40-0-40	.080"	1 9/16"	3/8"	Error Free
-	KZ 4 SI FS	.001"	-	40-0-40	.080"	1 9/16"	3/8"	Error Free, fixing screw
-	KZ 4 SI LB	.001"	-	40-0-40	.080"	1 9/16"	3/8"	Error Free, lug back
-	KZ 4/5 SW b	.001"	.100"	0-50-0	.200"	1 4/5"	3/8"	Waterproof
-	Z 1 Ta	.001"	.100"	0-100	.250"	2 1/4"	3/8"	
-	Z 1 Ta FS	.001"	.100"	0-100	.250"	2 1/4"	3/8"	Fixing screw
-	Z 1 Ta LB	.001"	.100"	0-100	.250"	2 1/4"	3/8"	Lug back
-	Z 1 Tb	.001"	.100"	0-50-0	.250"	2 1/4"	3/8"	
-	Z 1 Tb FS	.001"	.100"	0-50-0	.250"	2 1/4"	3/8"	Fixing screw
-	Z 1 Tb LB	.001"	.100"	0-50-0	.250"	2 1/4"	3/8"	Lug back
-	Z 2 Ta	.001"	.100"	0-100	.250"	2 1/4"	3/8"	
-	Z 2 Ta FS	.001"	.100"	0-100	.250"	2 1/4"	3/8"	Fixing screw
-	Z 2 Ta LB	.001"	.100"	0-100	.250"	2 1/4"	3/8"	Lug back
-	Z 2 Tb	.001"	.100"	0-50-0	.250"	2 1/4"	3/8"	
-	Z 2 Tb FS	.001"	.100"	0-50-0	.250"	2 1/4"	3/8"	Fixing screw
-	Z 2 Tb LB	.001"	.100"	0-50-0	.250"	2 1/4"	3/8"	Lug back
68	Z 2/8 SNb	.001"	.100"	0-50-0	.312"	2 1/4"	3/8"	Shockproof
-	Z 2/8 SNb FS	.001"	.100"	0-50-0	.312"	2 1/4"	3/8"	Shockproof, fixing screw
-	Z 2/8 SNb LB	.001"	.100"	0-50-0	.312"	2 1/4"	3/8"	Shockproof, lug back
69	ZMU 52 TK	.001"	.100"	0-100	.500"	2 1/4"	3/8"	
-	ZMU 52 TK LB	.001"	.100"	0-100	.500"	2 1/4"	3/8"	Lug back
69	ZMU 52/30 T	.001"	.100"	0-100	1.000"	2 1/4"	3/8"	
-	ZMU 52/30 T LB	.001"	.100"	0-100	1.000"	2 1/4"	3/8"	Lug back
70	Z 2/30 Ta	.001"	.100"	0-100	1.000"	2 1/4"	3/8"	
-	Z 2/30 Ta FS	.001"	.100"	0-100	1.000"	2 1/4"	3/8"	Fixing screw
-	Z 2/30 Ta LB	.001"	.100"	0-100	1.000"	2 1/4"	3/8"	Lug back
-	Z 2/50 Ta	.001"	.100"	0-100	2.000"	2 1/4"	3/8"	
-	Z 2/50 Ta FS	.001"	.100"	0-100	2.000"	2 1/4"	3/8"	Fixing screw
-	Z 2/50 Ta LB	.001"	.100"	0-100	2.000"	2 1/4"	3/8"	Lug back
-	Z 2/100 Ta	.001"	.100"	0-100	4.000"	2 1/4"	3/8"	
-	Z 2/100 Ta FS	.001"	.100"	0-100	4.000"	2 1/4"	3/8"	Fixing screw
-	Z 2/100 Ta LB	.001"	.100"	0-100	4.000"	2 1/4"	3/8"	Lug back
73	Z 2 SI	.001"	-	40-0-40	.080"	2 1/4"	3/8"	Error Free
-	Z 2 SI FS	.001"	-	40-0-40	.080"	2 1/4"	3/8"	Error Free, fixing screw
-	Z 2 SI LB	.001"	-	40-0-40	.080"	2 1/4"	3/8"	Error Free, lug back
-	GZ 80/100 T	.001"	.100"	0-100	4.000"	3 1/8"	3/8"	
-	GZ 80/100 T LB	.001"	.100"	0-100	4.000"	3 1/8"	3/8"	Lug back
67	KZ 3/5 Sb	.0005"	.040"	0-20-0	.200"	1 9/16"	3/8"	Shockproof
-	KZ 3/5 Sb FS	.0005"	.040"	0-20-0	.200"	1 9/16"	3/8"	Shockproof, fixing screw
-	KZ 3/5 Sb LB	.0005"	.040"	0-20-0	.200"	1 9/16"	3/8"	Shockproof, lug back
-	KZ 3 SI	.0005"	-	10-0-10	.020"	1 9/16"	3/8"	Error Free
-	KZ 3 SI FS	.0005"	-	10-0-10	.020"	1 9/16"	3/8"	Error Free, fixing screw
-	KZ 3 SI LB	.0005"	-	10-0-10	.020"	1 9/16"	3/8"	Error Free, lug back
-	Z 3 Ta	.0005"	.050"	0-50	.125"	2 1/4"	3/8"	
-	Z 3 Ta FS	.0005"	.050"	0-50	.125"	2 1/4"	3/8"	Fixing screw
-	Z 3 Ta LB	.0005"	.050"	0-50	.125"	2 1/4"	3/8"	Lug back
-	Z 3 Tb	.0005"	.050"	0-25-0	.125"	2 1/4"	3/8"	
-	Z 3 Tb FS	.0005"	.050"	0-25-0	.125"	2 1/4"	3/8"	Fixing screw
-	Z 3 Tb LB	.0005"	.050"	0-25-0	.125"	2 1/4"	3/8"	Lug back
-	Z 3/0.04 SNb	.0005"	.040"	0-20-0	.312"	2 1/4"	3/8"	Shockproof
-	Z 3/0.04 SNb FS	.0005"	.040"	0-20-0	.312"	2 1/4"	3/8"	Shockproof, fixing screw
-	Z 3/0.04 SNb LB	.0005"	.040"	0-20-0	.312"	2 1/4"	3/8"	Shockproof, lug back
70	Z 3/30 Ta	.0005"	.050"	0-50	1.000"	2 1/4"	3/8"	
-	Z 3/30 Ta FS	.0005"	.050"	0-50	1.000"	2 1/4"	3/8"	Fixing screw
-	Z 3/30 Ta LB	.0005"	.050"	0-50	1.000"	2 1/4"	3/8"	Lug back
-	Z 3/50 Ta	.0005"	.050"	0-50	2.000"	2 1/4"	3/8"	
-	Z 3/50 Ta FS	.0005"	.050"	0-50	2.000"	2 1/4"	3/8"	Fixing screw
-	Z 3/50 Ta LB	.0005"	.050"	0-50	2.000"	2 1/4"	3/8"	Lug back

## Inch Reading Precision Dial Gauges to ANSI Standard

Technical data for Inch Reading Precision Dial Gauges to ANSI Standard

Page	Model	Reading	Range per revolution	Dial Reading	Range	Bezel-Ø	Stem-Ø	Special Feature
72	Z3/5 Rb	.0005"	.050"	0-25-0	.200"	2 1/4"	3/8"	Back plunger
-	Z3/5 Rb FS	.0005"	.050"	0-25-0	.200"	2 1/4"	3/8"	Back plunger, fixing screw
74	Z3 SNW	.0005"	.050"	0-50	.400"	2 27/64"	3/8"	Waterproof
-	FZ3 SI	.0005"	-	10-0-10	.020"	2 1/4"	3/8"	Error Free
-	FZ3 SI FS	.0005"	-	10-0-10	.020"	2 1/4"	3/8"	Error Free, fixing screw
-	FZ3 SI LB	.0005"	-	10-0-10	.020"	2 1/4"	3/8"	Error Free, lug back
-	KFZ Tb	.0001"	.010"	0-5-0	.040"	1 9/16"	3/8"	
-	KFZ Tb FS	.0001"	.010"	0-5-0	.040"	1 9/16"	3/8"	Fixing screw
-	KFZ Tb LB	.0001"	.010"	0-5-0	.040"	1 9/16"	3/8"	Lug back
-	KFZ3 Sb	.0001"	.010"	0-5-0	.100"	1 9/16"	3/8"	Shockproof
-	KFZ3 Sb FS	.0001"	.010"	0-5-0	.100"	1 9/16"	3/8"	Shockproof, fixing screw
-	KFZ3 Sb LB	.0001"	.010"	0-5-0	.100"	1 9/16"	3/8"	Shockproof, lug back
-	KFZ 1101	.00005"	.005"	0-50	.040"	1 9/16"	3/8"	Shockproof
-	KFZ 1101 FS	.00005"	.005"	0-50	.040"	1 9/16"	3/8"	Shockproof, fixing screw
-	KFZ 1101 LB	.00005"	.005"	0-50	.040"	1 9/16"	3/8"	Shockproof, lug back
-	SI-914 Z	.00005"	-	20-0-20	.004"	1 9/16"	3/8"	Error Free
-	SI-914 Z FS	.00005"	-	20-0-20	.004"	1 9/16"	3/8"	Error Free, fixing screw
-	SI-914 Z LB	.00005"	-	20-0-20	.004"	1 9/16"	3/8"	Error Free, lug back
-	FZ Ta	.0001"	.010"	0-10	.025"	2 1/4"	3/8"	
-	FZ Ta FS	.0001"	.010"	0-10	.025"	2 1/4"	3/8"	Fixing screw
-	FZ Ta LB	.0001"	.010"	0-10	.025"	2 1/4"	3/8"	Lug back
-	FZ Tb	.0001"	.010"	0-5-0	.025"	2 1/4"	3/8"	
-	FZ Tb FS	.0001"	.010"	0-5-0	.025"	2 1/4"	3/8"	Fixing screw
-	FZ Tb LB	.0001"	.010"	0-5-0	.025"	2 1/4"	3/8"	Lug back
-	FZ 1101	.00005"	.005"	0-50	.040"	2 1/4"	3/8"	Shockproof
-	FZ 1101 FS	.00005"	.005"	0-50	.040"	2 1/4"	3/8"	Shockproof, fixing screw
-	FZ 1101 LB	.00005"	.005"	0-50	.040"	2 1/4"	3/8"	Shockproof, lug back
-	FZ/2.5 Sb	.0001"	.010"	0-5-0	.100"	2 1/4"	3/8"	Shockproof
-	FZ/2.5 Sb FS	.0001"	.010"	0-5-0	.100"	2 1/4"	3/8"	Shockproof, fixing screw
-	FZ/2.5 Sb LB	.0001"	.010"	0-5-0	.100"	2 1/4"	3/8"	Shockproof, lug back
-	SI-915 Z	.00005"	-	20-0-20	.004"	2 1/4"	3/8"	Error Free
-	SI-915 Z FS	.00005"	-	20-0-20	.004"	2 1/4"	3/8"	Error Free, fixing screw
-	SI-915 Z LB	.00005"	-	20-0-20	.004"	2 1/4"	3/8"	Error Free, lug back

All the models of the above table have measurements equivalent to the American Standard ANSI B 89. 1/10M-2001. These instruments have a stem-Ø of 3/8", the thread for the contact point is 4/48 UNF.

In standard version the Dial Gauges will be delivered without fixing device for the bezel and flat back. At extra charge versions with fixing screw as well as lug back are available. Please add the type code FS for fixing screw resp. LB for lug back should you require the Dial Gauge with these features. Extra charges can be found in our price list below the listing of Inch Dial Gauges.

Additional accessories are available for Inch Dial Gauges:

- Offset lug back
- Screw type back
- Special contact points (see page 91)

Inch reading Dial Gauges are also available with a stem-Ø 8 mm h 6 and a thread M 2.5. For details of this Dial Gauge Series please see the table on page 61.



## Small Inch Dial Gauges KZ 4/5 Sb and KZ 3/5 Sb to ANSI standard, shockproof

The high-class impact protection of the Inch Dial Gauges KZ 4/5 Sb and KZ 3/5 Sb results in an exceptionally long service life. A gear rack sleeve covering the length of the spindle is arranged and sprung in such a way that the shocks against the measuring insert are not transferred to the measuring gear. The Dial Gauges are robust in operation. Their precision is maintained with practically no limitations.

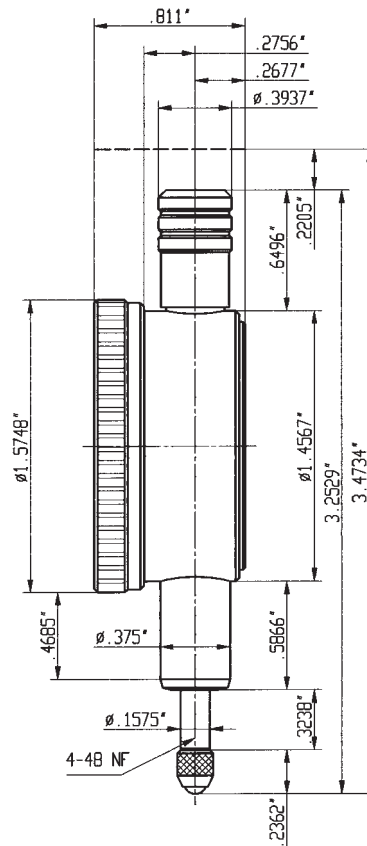
Spindle and stem are made of resistant stainless steel.

Small Inch Dial Gauge KZ 4/5 Sb shockproof	
Reading	.001"
Range	.200"
Range per revolution	.100"
Dial reading	0-50-0
Bezel-Ø	1 9/16"
Stem-Ø	3/8"
Dimensions and accuracy according to	ANSI
Spindle	lapped
Dimensioned drawing	page 67

Small Inch Dial Gauge KZ 3/5 Sb shockproof	
Reading	.0005"
Range	.200"
Range per revolution	.040"
Dial reading	0-20-0
Bezel-Ø	1 9/16"
Stem-Ø	3/8"
Dimensions and accuracy according to	ANSI
Spindle	lapped
Dimensioned drawing	page 67



Model shown: KZ 4/5 Sb



For model KZ 3/5 Sb the spindle is shorter by .0285" thus reducing the overall length to 3.4449" from 3.4734".

Special fittings:





## Inch Dial Gauge Z 2/8 SNb

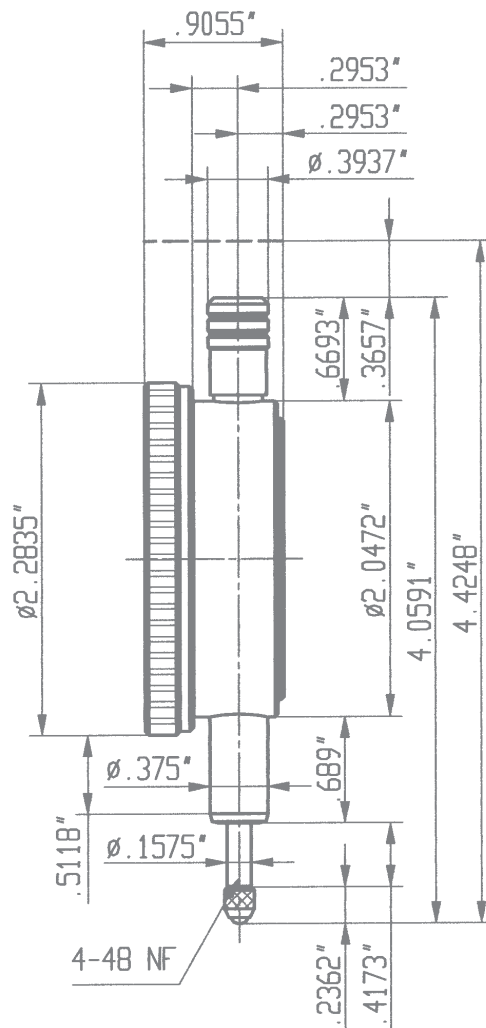
to ANSI standard, shockproof

With this shockproof series, a product of our extensive design expertise, we offer an accurate, reliable and long-lasting Dial Gauge.

A gear rack sleeve covering the length of the spindle is arranged and sprung in such a way that the shocks against the measuring insert are not transferred to the measuring gear. The Dial Gauge is robust in operation. Its precision is maintained with practically no limitations.

Spindle and stem are made of resistant stainless steel.

Inch Dial Gauge Z 2/8 SNb shockproof	
Reading	.001"
Range	.312"
Range per revolution	.100"
Dial reading	0-50-0
Bezel-Ø	2 1/4"
Stem-Ø	3/8"
Dimensions and accuracy according to	ANSI
Spindle	lapped
Dimensioned drawing	page 68



Special fittings:







## Dial Gauge ZMU 52 TK

to ANSI standard

## Dial Gauge ZMU 52/30 T

to ANSI standard, shockproof

Our new Dial Gauge Series MU 52 has been designed and manufactured by Käfer Dial Gauges Shanghai. The racks and pinions – the key parts for the accuracy of Dial Gauges – are however supplied by Käfer Germany. All Dial Gauges are checked for their accuracy on a Feinmess Suhl automatic Dial Gauge Measuring Machine.

All details of these Dial Gauges conform to the American Standard ANSI B 89. Particularly clear reading due to the concentrically positioned small pointer.

Precision Dial Gauge ZMU 52 TK	
Reading	.001"
Range	.5"
Range per revolution	.1"
Bezel-Ø	2 1/4"
Stem-Ø	3/8"
Dimensions and accuracy according to	ANSI
Spindle	lapped
Dimensioned drawing	on request

Precision Dial Gauge ZMU 52/30 T	
Reading	.001"
Range	1"
Range per revolution	.1"
Bezel-Ø	2 1/4"
Stem-Ø	3/8"
Dimensions and accuracy according to	ANSI
Spindle	lapped
Dimensioned drawing	on request



Special fittings:





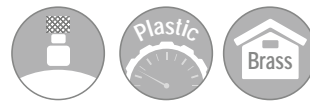
## Inch Dial Gauge Z 2/30 Ta

to ANSI standard

The concentric millimetre pointer allows an easy and safe reading of these Dial Gauges. The carefully thought out design, the use of selected components and materials as well as the movement perfected by precision engineering guarantee reliable measuring results and a long service life of the Precision Dial Gauges Z 2/30 Ta and Z 3/30 Ta.

The essential parts of the movement are jewelled.  
Spindle and stem are made of resistant stainless steel.

Inch Dial Gauge Z 2/30 Ta	
Reading	.001"
Range	1"
Range per revolution	.100"
Dial reading	0-100
Bezel-Ø	2 1/4"
Stem-Ø	3/8"
Dimensions and accuracy according to	ANSI
Spindle	lapped
Dimensioned drawing	page 70



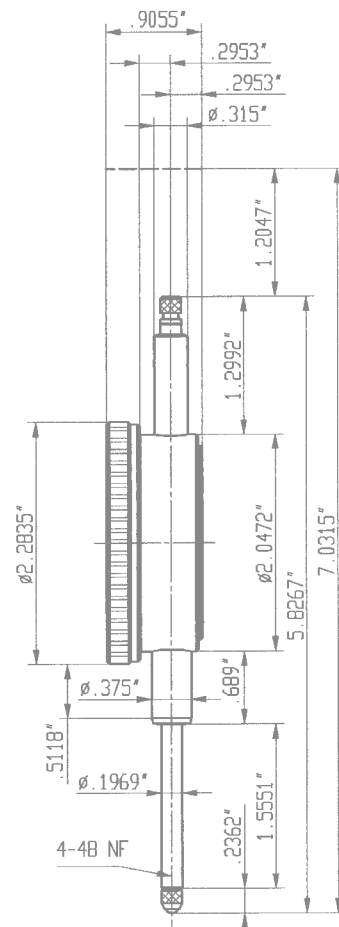
## Inch Dial Gauge Z 3/30 Ta

to ANSI standard

Inch Dial Gauge Z 3/30 Ta	
Reading	.0005"
Range	1"
Range per revolution	.050"
Dial reading	0-50
Bezel-Ø	2 1/4"
Stem-Ø	3/8"
Dimensions and accuracy according to	ANSI
Spindle	lapped
Dimensioned drawing	page 70



Model shown: Z 2/30 Ta

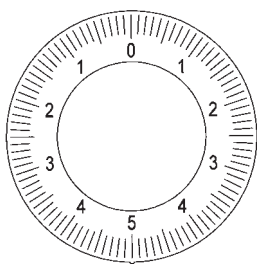


Special fittings:

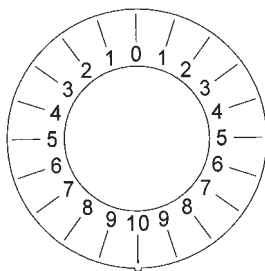
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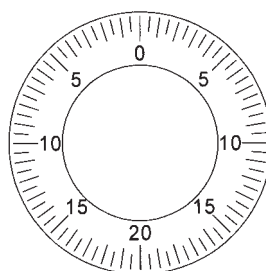
## Dial Numbering of Inch Reading Dial Gauges to ANSI



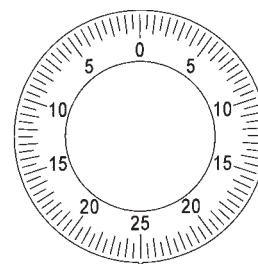
**0-5-0** reading .0001"  
KFZ Tb, KFZ3 Sb, FZ Tb,  
FZ 2.5 Sb



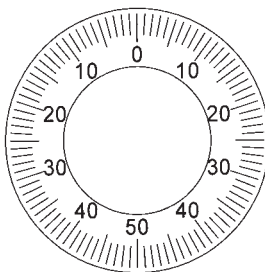
**0-10-0** reading .001"  
KZ 4/5 Rb



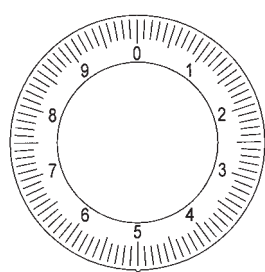
**0-20-0** reading .0005"  
KZ 3/5 Sb, Z 3/0.4 SNb



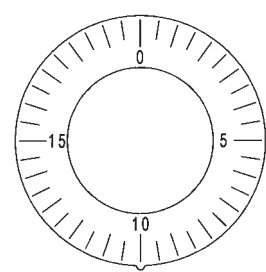
**0-25-0** reading .0005"  
Z3 Tb, Z 3/5 Rb



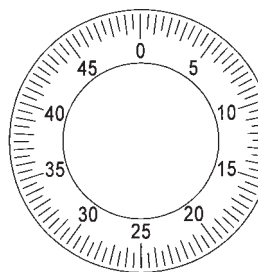
**0-50-0** reading .001"  
KZ 4/5 Sb, KZ 4/5 SWb,  
Z 1 Tb, Z 2 Tb, Z 2/8 SNb



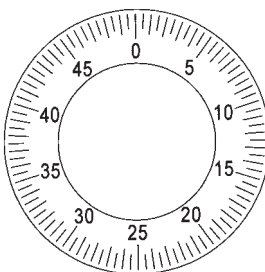
**0-10** reading .0001"  
FZ Ta



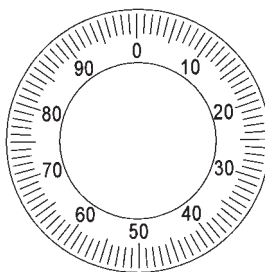
**0-20** reading .0005"  
KZ 6 T



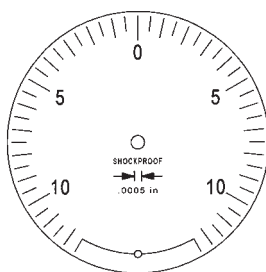
**0-50** reading .0005"  
Z 3 Ta, Z 3/30 Ta, Z 3/50 Ta  
Z 3 SNW



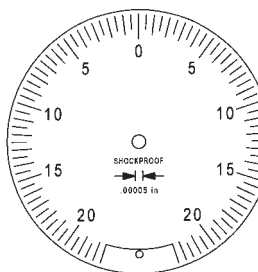
**0-50** reading .00005"  
KFZ 1101, FZ 1101



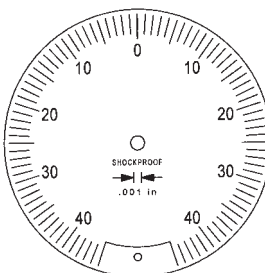
**0-100** reading .001"  
Z 1 Ta, Z 2 Ta, Z 2/30 Ta,  
Z 2/50 Ta, Z 2/100 Ta,  
GZ 80/100 T, ZMU 52 TK,  
ZMU 52/30 T



**10-0-10** reading .0005"  
KZ 3 SI, FZ 3 SI

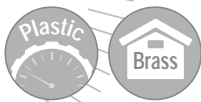


**20-0-20** reading .00005"  
SI - 914 Z, SI - 915 Z



**40-0-40** reading .001"  
KZ4 SI, Z 2 SI

All models bearing the same prefix but with a suffix identifying a special version (i.e. FS for fixing screw or LB for lug back) have the same dial numbering as the illustrated basic models.



Ideal for use in measuring fixtures

## Small Inch Dial Gauge KZ 4/5 Rb

with back plunger

## Inch Dial Gauge Z 3/5 Rb

with back plunger

The models with back plunger provide the designer with new construction possibilities. They allow positioning with optimal read-out facility. These models can be held either on the stem  $\varnothing \frac{3}{8}$ " or on the 1.1024" diameter spigot.

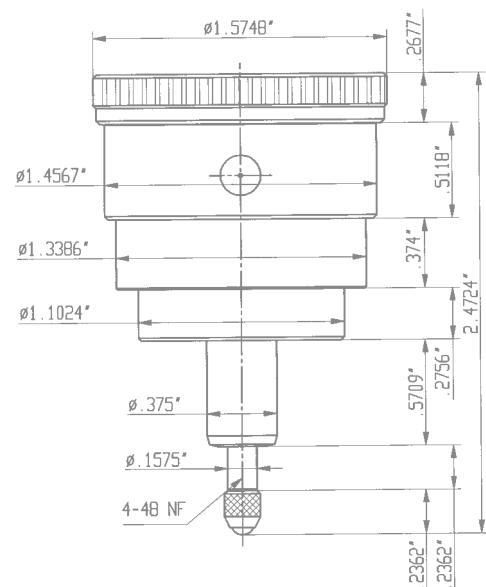
Spindle and stem are made of resistant stainless steel.

Small Inch Dial Gauge KZ 4/5 Rb with back plunger	
Reading	.001"
Range	.200"
Range per revolution	.020"
Dial reading	0-10-0
Bezel- $\varnothing$	1 $\frac{9}{16}$ "
Stem- $\varnothing$	$\frac{3}{8}$ "
Accuracy according to manufacturing standard	0.0500.9.0007
Spindle	lapped
Dimensioned drawing	page 72

Inch Dial Gauge Z 3/5 Rb with back plunger	
Reading	.0005"
Range	.200"
Range per revolution	.050"
Dial reading	0-25-0
Bezel- $\varnothing$	2 $\frac{1}{4}$ "
Stem- $\varnothing$	$\frac{3}{8}$ "
Accuracy according to manufacturing standard	0.0500.9.0007
Spindle	lapped
Dimensioned drawing	on request



Model shown: KZ 4/5 Rb



Special fittings:





## Error Free Inch Dial Gauge Z2 SI

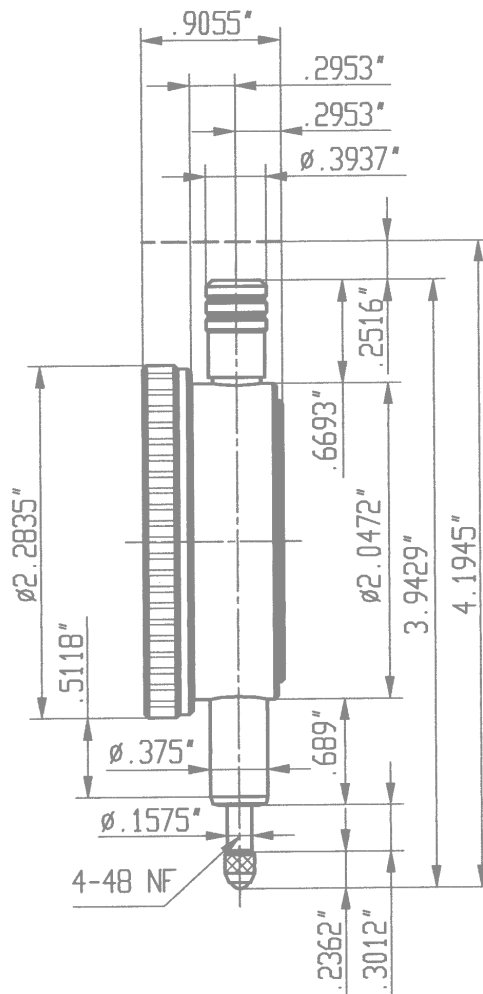
to ANSI, with overtravel, shockproof

In order to avoid reading errors the measuring ranges of our Error Free Dial Gauges series ‚SI‘ are limited to slightly less than one revolution of the hand. Therefore a measurement can only be performed within the range of one revolution of the hand guaranteeing an error free reading of the Dial Gauges.

The high-class impact protection of the Error Free Dial Gauge Z2 SI results in an exceptionally long service life. A gear rack sleeve covering the length of the spindle is arranged and sprung in such a way that the shocks against the measuring insert are not transferred to the measuring gear.

Spindle and stem are made of resistant stainless steel.

Error Free Inch Dial Gauge Z2 SI shockproof, with overtravel	
Reading	.001"
Range	.080"
Overtravel	.1568"
Bezel-Ø	2 1/4"
Stem-Ø	3/8"
Dimensions and accuracy according to	ANSI
Spindle	lapped
Dimensioned drawing	page 73



The above dimensioned drawing also applies to model FZ 3 SI which is not shown in this catalogue.

Special fittings:





## Inch Dial Gauge Z3 SNW

waterproof, shockproof

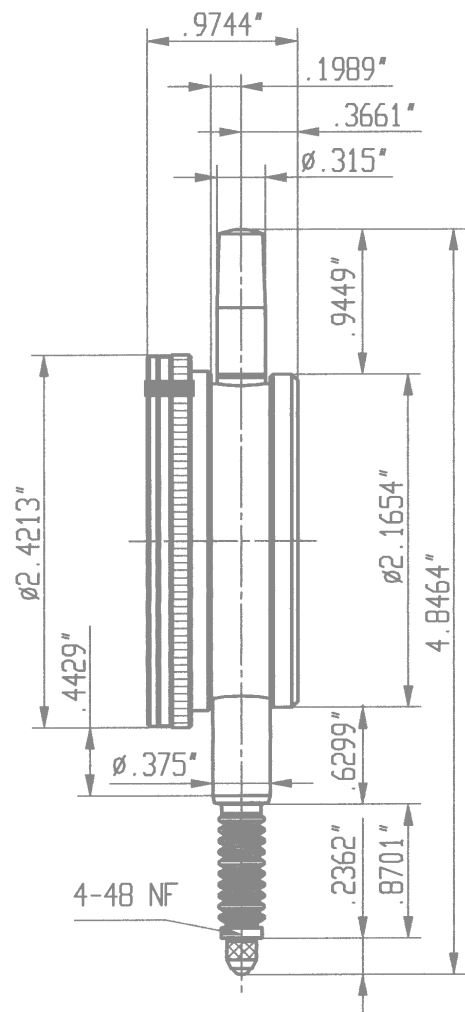
The technical features of our waterproof Inch Dial Gauges are the same as for the metric models on page 53 of this catalogue.

When changing the measuring insert attention has to be paid that the spacer disc between the measuring insert and the rubber bellows is put back again. Otherwise the Dial Gauge is no longer sealed against the ingress of contamination.

Spindle and stem are made of resistant stainless steel.

### Inch Dial Gauge Z3 SNW waterproof, shockproof

Reading	.0005"
Range	.400"
Range per revolution	.050"
Bezel-Ø	2 27/64"
Stem-Ø	3/8"
Dimensions and accuracy according to	ANSI
Spindle	lapped
Dimensioned drawing	page 74



Special fittings:

