

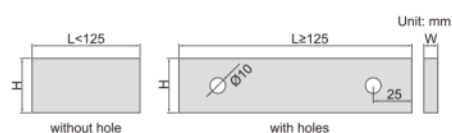
STEEL GAGE BLOCK SETS



- Made of alloy steel
- Meet ISO3650
- Gage blocks $\geq 125\text{mm}$ have clamping holes
- Supplied with manufacturer inspection certificate



4100-87



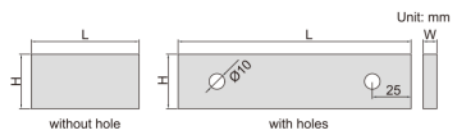
Dimension:		(mm)	
Size (L)	W	H	
$0.5 \leq L \leq 10\text{mm}$	9	30	
$L > 10\text{mm}$	9	35	

Blocks per set	Gage blocks included in set			Code		
	Size (mm)	Step (mm)	Quantity	Grade 1	Grade 2	
122	1.0005	0.001	1	4100-1122	4100-2122	
	1.001-1.009		9			
	1.01-1.49		49			
	1.6-1.9		0.1			4
	0.5-24.5		0.5			49
	30-100		10			8
112	1.0005	0.001	1	4100-1112	4100-2112	
	1.001-1.009		9			
	1.01-1.49		0.01			49
	0.5-24.5		0.5			49
103	1.005	0.01	1	4100-1103	4100-2103	
	1.01-1.49		49			
	0.5-24.5		0.5			49
	25-100		25			4

Blocks per set	Gage blocks included in set			Code			
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1	Grade 2	
87	1.001-1.009	0.001	9	4100-87	4100-187	4100-287	
	1.01-1.49	0.01	49				
	0.5-9.5	0.5	19				
	10-100	10	10				
47	1.005	0.01	1	4100-47	4100-147	4100-247	
	1.01-1.19		0.1				19
	1.2-1.9		1				8
	1-9		1				9
	10-100		10				10
32	1.005	0.01	1	4100-32	4100-132	4100-232	
	1.01-1.09		0.01				9
	1.1-1.9		0.1				9
	1-9		1				9
	10-30		10				3
	50		10				1
8	125-175	25	3	4100-8	4100-18	4100-28	
	200-250	50	2				
	300-500	100	3				

INDIVIDUAL STEEL GAGE BLOCKS

CUSTOM-MADE
CAN SUPPLY ANY SIZES FROM 0.5 TO 1000MM,
SUCH AS 72.672MM



4101-A70

4101-A200

- Grade 0, 1 and 2 gage blocks are available
- Made of alloy steel
- Meet ISO3650
- Gage blocks with clamping holes: 125, 150, 175, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000mm
- Supplied with manufacturer inspection certificate

Dimension: (mm)

Size (L)	W	H
0.5 ≤ L ≤ 10mm	9	30
L > 10mm	9	35

Grade 0 (mm)

Code	Size
4101-A1	1
4101-A10	10
4101-A100	100

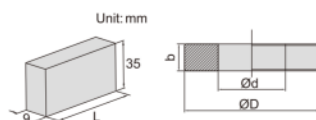
Grade 2 (mm)

Code	Size
4101-C1	1
4101-C10	10
4101-C100	100
4101-C200	200
4101-C250	250
4101-C300	300

Grade 1 (mm)		Grade 1 (mm)		Grade 1 (mm)		Grade 1 (mm)		Grade 1 (mm)	
Code	Size	Code	Size	Code	Size	Code	Size	Code	Size
4101-BD5	0.5	4101-B1D12	1.12	4101-B1D4	1.4	4101-B5	5	4101-B22	22
4101-B1	1	4101-B1D15	1.15	4101-B1D42	1.42	4101-B5D5	5.5	4101-B23	23
4101-B1D001	1.001	4101-B1D16	1.16	4101-B1D43	1.43	4101-B6	6	4101-B25	25
4101-B1D002	1.002	4101-B1D18	1.18	4101-B1D45	1.45	4101-B7	7	4101-B30	30
4101-B1D003	1.003	4101-B1D19	1.19	4101-B1D46	1.46	4101-B7D5	7.5	4101-B35	35
4101-B1D004	1.004	4101-B1D2	1.2	4101-B1D47	1.47	4101-B8	8	4101-B40	40
4101-B1D005	1.005	4101-B1D21	1.21	4101-B1D48	1.48	4101-B8D5	8.5	4101-B45	45
4101-B1D006	1.006	4101-B1D22	1.22	4101-B1D49	1.49	4101-B9	9	4101-B50	50
4101-B1D009	1.009	4101-B1D24	1.24	4101-B1D5	1.5	4101-B9D5	9.5	4101-B60	60
4101-B1D01	1.01	4101-B1D25	1.25	4101-B1D6	1.6	4101-B10	10	4101-B70	70
4101-B1D02	1.02	4101-B1D26	1.26	4101-B1D7	1.7	4101-B11	11	4101-B75	75
4101-B1D03	1.03	4101-B1D27	1.27	4101-B1D8	1.8	4101-B12	12	4101-B80	80
4101-B1D04	1.04	4101-B1D3	1.3	4101-B1D9	1.9	4101-B13	13	4101-B90	90
4101-B1D05	1.05	4101-B1D32	1.32	4101-B2	2	4101-B14	14	4101-B100	100
4101-B1D06	1.06	4101-B1D33	1.33	4101-B2D5	2.5	4101-B15	15	4101-B125	125
4101-B1D07	1.07	4101-B1D34	1.34	4101-B3	3	4101-B16	16	4101-B131D4	131.4
4101-B1D08	1.08	4101-B1D35	1.35	4101-B3D5	3.5	4101-B18	18	4101-B150	150
4101-B1D09	1.09	4101-B1D36	1.36	4101-B4	4	4101-B20	20		
4101-B1D1	1.1	4101-B1D37	1.37	4101-B4D5	4.5	4101-B21	21		

CALIPER INSPECTION GAGE BLOCK AND RING GAGE SET

- Gage blocks meet ISO3650
- Ring gages meet DIN2250-1:2008
- Supplied with manufacturer inspection certificate



4176-30

Ring gage sizes:

diameter (Ød)*	b	ØD
Ø4mm	5mm	22mm
Ø25mm	14mm	53mm

* The size of the ring gage when supplied may have deviation. For example, the size Ø25mm may be 24.996mm

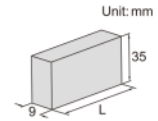
(mm)

Code	Material	Gage blocks included in set (L)	Ring gages included in set (Ød)	Applicable calipers
4176-30	alloy steel	30, 41.3, 131.4	4, 25	0-150

CALIPER INSPECTION GAGE BLOCK SET



- Meet ISO3650/grade 2
- Supplied with manufacturer inspection certificate



4108-3005

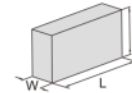
Code	Material	Gage blocks included in set (L)	Applicable calipers
4108-3005	alloy steel	30, 41.3, 131.4, 243.5, 281.2	0-150, 0-200, 0-300

MICROMETER INSPECTION GAGE BLOCK SET



- Meet ISO3650/grade 0
- One piece of optical flat is included (size Ø30x12mm)
- Supplied with manufacturer inspection certificate

optical flat (included)



Dimension:

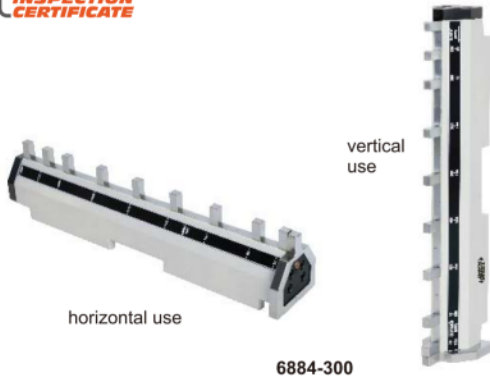
Size (L)	W	H
0.5 ≤ L ≤ 10mm	9mm	30mm
L > 10mm	9mm	35mm

4160-10

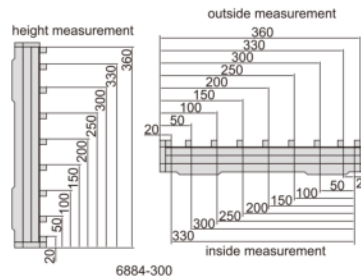
Code	Material	Gage blocks included in set	Applicable micrometer
4160-10	alloy steel	2.5mm, 5.1mm, 7.7mm, 10.3mm, 12.9mm, 15mm, 17.6mm, 20.2mm, 22.8mm, 25mm	0-25mm



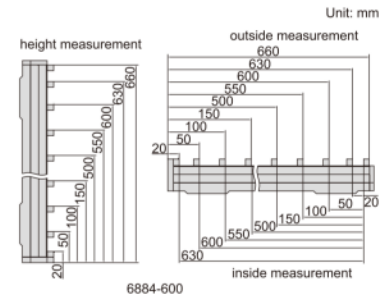
CALIPER/HEIGHT GAGE CHECKERS



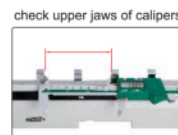
6884-300



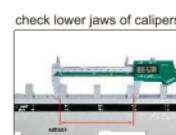
6884-300



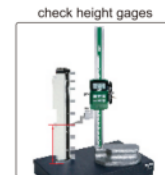
6884-600



check upper jaws of calipers



check lower jaws of calipers



check height gages

- To check calipers and height gages
- Constructed with steel gage blocks

Code	Size	Range of inside measurement	Range of outside measurement	Range of height measurement	Accuracy
6884-300*	0-300mm	20, 50, 100, 150, 200, 250, 300, 330	20, 50, 100, 150, 200, 250, 300, 330, 360	20, 50, 100, 150, 200, 250, 300, 330, 360	±3µm
6884-600*	0-600mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630, 660	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630, 660	±5µm

*Supplied with manufacturer inspection certificate

INSIDE MICROMETER ACCESSORY

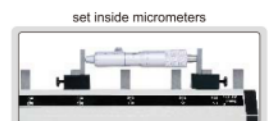
- Supplied with a pair of 5mm carbide gage blocks

Code
6884-A10*

*Supplied with manufacturer inspection certificate



6884-A10



PIN GAGE SETS

Code	Diameter Ød (mm)	Step	Pin gages per set
4166-2S	1.00, 1.01, 1.02, … 2.00	0.01mm	101
4166-3S	2.00, 2.01, 2.02, … 3.00	0.01mm	101
4166-4S	3.00, 3.01, 3.02, … 4.00	0.01mm	101
4166-5S	4.00, 4.01, 4.02, … 5.00	0.01mm	101
4166-6S	5.00, 5.01, 5.02, … 6.00	0.01mm	101
4166-7S	6.00, 6.01, 6.02, … 7.00	0.01mm	101
4166-8S	7.00, 7.01, 7.02, … 8.00	0.01mm	101
4166-9S	8.00, 8.01, 8.02, … 9.00	0.01mm	101
4166-10S	9.00, 9.01, 9.02, … 10.00	0.01mm	101



Unit: mm



4166-10

Code	Diameter Ød (mm)	Step	Pin gages per set
4166-411	1.0, 1.1, 1.2, … 5.0	0.01mm	41
4166-511	5.0, 5.1, 5.2, … 10.0	0.01mm	51
4166-512	10.0, 10.1, 10.2, … 15.0	0.01mm	51
4166-513	15.0, 15.1, 15.2, … 20.0	0.01mm	51

- Meet DIN2269, grade 1
- Made of alloy steel
- Hardness HRC62-65
- Diameter accuracy: $\pm 1\mu\text{m}$

Code	Diameter Ød (mm)	Step	Pin gages per set
4166-0D	0.20, 0.21, 0.22, … 0.50	0.01mm	31
4166-1	0.50, 0.51, 0.52, … 1.00	0.01mm	51
4166-1D	1.00, 1.01, 1.02, … 1.50	0.01mm	51
4166-2	1.50, 1.51, 1.52, … 2.00	0.01mm	51
4166-2D	2.00, 2.01, 2.02, … 2.50	0.01mm	51
4166-3	2.50, 2.51, 2.52, … 3.00	0.01mm	51
4166-3D	3.00, 3.01, 3.02, … 3.50	0.01mm	51
4166-4	3.50, 3.51, 3.52, … 4.00	0.01mm	51
4166-4D	4.00, 4.01, 4.02, … 4.50	0.01mm	51
4166-5	4.50, 4.51, 4.52, … 5.00	0.01mm	51
4166-5D	5.00, 5.01, 5.02, … 5.50	0.01mm	51
4166-6	5.50, 5.51, 5.52, … 6.00	0.01mm	51
4166-6D	6.00, 6.01, 6.02, … 6.50	0.01mm	51
4166-7	6.50, 6.51, 6.52, … 7.00	0.01mm	51
4166-7D	7.00, 7.01, 7.02, … 7.50	0.01mm	51
4166-8	7.50, 7.51, 7.52, … 8.00	0.01mm	51
4166-8D	8.00, 8.01, 8.02, … 8.50	0.01mm	51
4166-9	8.50, 8.51, 8.52, … 9.00	0.01mm	51
4166-9D	9.00, 9.01, 9.02, … 9.50	0.01mm	51
4166-10	9.50, 9.51, 9.52, … 10.00	0.01mm	51

Code	Diameter Ød (mm)	Step	Pin gages per set
4166-10D	10.00, 10.01, 10.02, … 10.50	0.01mm	51
4166-11	10.50, 10.51, 10.52, … 11.00	0.01mm	51
4166-11D	11.00, 11.01, 11.02, … 11.50	0.01mm	51
4166-12	11.50, 11.51, 11.52, … 12.00	0.01mm	51
4166-12D	12.00, 12.01, 12.02, … 12.50	0.01mm	51
4166-13	12.50, 12.51, 12.52, … 13.00	0.01mm	51
4166-13D	13.00, 13.01, 13.02, … 13.50	0.01mm	51
4166-14	13.50, 13.51, 13.52, … 14.00	0.01mm	51
4166-14D	14.00, 14.01, 14.02, … 14.50	0.01mm	51
4166-15	14.50, 14.51, 14.52, … 15.00	0.01mm	51
4166-15D	15.00, 15.01, 15.02, … 15.50	0.01mm	51
4166-16	15.50, 15.51, 15.52, … 16.00	0.01mm	51
4166-16D	16.00, 16.01, 16.02, … 16.50	0.01mm	51
4166-17	16.50, 16.51, 16.52, … 17.00	0.01mm	51
4166-17D	17.00, 17.01, 17.02, … 17.50	0.01mm	51
4166-18	17.50, 17.51, 17.52, … 18.00	0.01mm	51
4166-18D	18.00, 18.01, 18.02, … 18.50	0.01mm	51
4166-19	18.50, 18.51, 18.52, … 19.00	0.01mm	51
4166-19D	19.00, 19.01, 19.02, … 19.50	0.01mm	51
4166-20	19.50, 19.51, 19.52, … 20.00	0.01mm	51

PIN GAGE HANDLES (OPERATED WITHOUT WRENCH)

- Operated without wrench
- Made of aluminum
- Pin gages can be installed



7342-M1



Code	Applicable pin gage diameter
7342-M0	0.30-1.50mm/0.011-0.060"
7342-M1	1.51-6.35mm/0.061-0.250"
7342-M2	6.36-12.70mm/0.251-0.500"
7342-M3	12.71-15.88mm/0.501-0.625"

Code	Applicable pin gage diameter
7342-M4	15.89-19.00mm/0.626-0.750"
7342-M5	19.01-21.13mm/0.751-0.832"
7342-M6	21.14-23.27mm/0.833-0.916"
7342-M7	23.28-25.40mm/0.917-1.000"

PIN GAGE HANDLES (OPERATED WITH WRENCH)



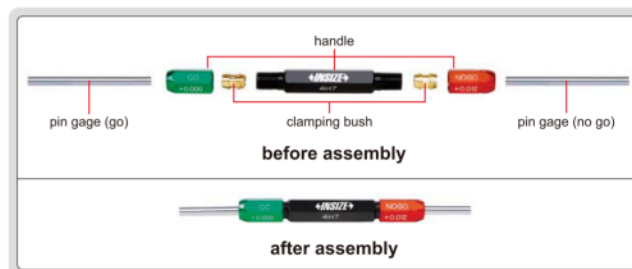
handle



brass clamping bush (0.2~7.14mm)



aluminum clamping bush (7.14~24.80mm)



- Wrench is needed to install pins
- Clamping bushes (0.2~7.14mm) are made of brass, clamping bushes (7.14~24.80mm) are made of aluminum

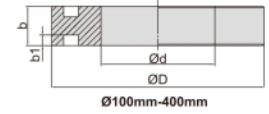
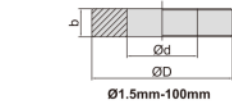
Code	Applicable pin gage diameter	Including	
		Handle	Clamping bush (mm)
7341-0S	0.2-1.02mm	1 pc	6 pairs (the clamping range are 0.2-0.38, 0.38-0.51, 0.51-0.64, 0.64-0.76, 0.76-0.89, 0.89-1.02)
7341-1S	1.02-1.91mm	1 pc	7 pairs (the clamping range are 1.02-1.14, 1.14-1.27, 1.27-1.40, 1.40-1.52, 1.52-1.65, 1.65-1.78, 1.78-1.91)
7341-2S	1.91-3.33mm	1 pc	8 pairs (the clamping range are 1.91-2.08, 2.08-2.26, 2.26-2.44, 2.44-2.62, 2.62-2.79, 2.79-2.97, 2.97-3.15, 3.15-3.33)
7341-3S	3.33-4.57mm	1 pc	7 pairs (the clamping range are 3.33-3.51, 3.51-3.68, 3.68-3.86, 3.86-4.04, 4.04-4.22, 4.22-4.39, 4.39-4.57)
7341-4S	4.57-5.79mm	1 pc	6 pairs (the clamping range are 4.57-4.78, 4.78-4.98, 4.98-5.18, 5.18-5.38, 5.38-5.59, 5.59-5.79)
7341-5S	5.79-7.14mm	1 pc	6 pairs (the clamping range are 5.79-5.99, 5.99-6.20, 6.20-6.40, 6.40-6.63, 6.63-6.88, 6.88-7.14)
7341-6S	7.14-8.66mm	1 pc	6 pairs (the clamping range are 7.14-7.39, 7.39-7.65, 7.65-7.90, 7.90-8.15, 8.15-8.41, 8.41-8.66)

Code	Applicable pin gage diameter	Handle	Including
			Clamping bush (mm)
7341-7S	8.66-10.31mm	1 pc	6 pairs (the clamping range are 8.66-8.92, 8.9-9.17, 9.17-9.42, 9.42-9.70, 9.70-10.01, 10.01-10.31)
7341-8S	10.31-11.81mm	1 pc	4 pairs (the clamping range are 10.31-10.67, 10.67-11.05, 11.05-11.43, 11.43-11.81)
7341-9S	11.81-12.95mm	1 pc	3 pairs (the clamping range are 11.81-12.19, 12.19-12.57, 12.57-12.95)
7341-10S	12.95-14.71mm	1 pc	4 pairs (the clamping range are 12.95-13.51, 13.51-13.89, 13.89-14.30, 14.30-14.71)
7341-11S	14.71-16.13mm	1 pc	4 pairs (the clamping range are 14.71-15.09, 15.09-15.49, 15.49-15.88, 15.88-16.13)
7341-12S	16.13-17.88mm	1 pc	4 pairs (the clamping range are 16.13-16.66, 16.66-17.07, 17.07-17.48, 17.48-17.88)
7341-13S	17.88-19.30mm	1 pc	4 pairs (the clamping range are 17.88-18.26, 18.26-18.67, 18.67-19.05, 19.05-19.30)
7341-15S	19.30-24.80mm	1 pc	8 pairs (the clamping range are 19.30-19.84, 19.84-20.62, 20.62-21.41, 21.41-22.23, 22.23-23.03, 23.03-23.80, 23.80-24.59, 24.59-24.80)

SETTING RINGS

CAN SUPPLY CUSTOM SETTING RINGS FROM Ø1.500MM TO Ø400.000MM, FOR EXAMPLE, Ø17.085MM

- For zero setting of inside micrometers, three points internal micrometers and bore gages
- The size marked on the setting ring is checked at the direction of the marking line
- Deviation (difference between the ordered size and the size marked on the setting ring when supplied): For example, the ordered size is Ø10.125mm, the size marked on the setting ring when supplied may be Ø10.135mm
- Meet DIN2250-1:2008



(mm)

Diameter d**	b	ØD	Deviation	Roundness and cylindricity
Ø1.5-2.5	4mm	22mm	±10.0µm	0.3µm
Ø2.5-3	5mm	22mm	±10.0µm	0.3µm
Ø3-5	5mm	22mm	±10.0µm	0.4µm
Ø5-10	8mm	32mm	±10.0µm	0.4µm
Ø10-15	10mm	38mm	±10.0µm	0.5µm
Ø15-18	12mm	45mm	±10.0µm	0.5µm
Ø18-20	12mm	45mm	±10.0µm	0.6µm
Ø20-25	14mm	53mm	±10.0µm	0.6µm
Ø25-30	16mm	63mm	±10.0µm	0.6µm
Ø30-32	16mm	63mm	±10.0µm	0.7µm
Ø32-40	18mm	71mm	±10.0µm	0.7µm
Ø40-50	20mm	85mm	±10.0µm	0.7µm
Ø50-60	20mm	100mm	±10.0µm	0.8µm
Ø60-70	24mm	112mm	±10.0µm	0.8µm
Ø70-80	24mm	125mm	±10.0µm	0.8µm
Ø80-90	24mm	140mm	±10.0µm	1.0µm
Ø90-100	24mm	160mm	±10.0µm	1.0µm

** For example Ø3-5mm means Ø3mm < diameter d ≤ 5mm

(mm)

Diameter d**	b	b1	ØD	Deviation	Roundness and cylindricity
Ø100-110	30mm	8mm	164mm	±10.0µm	1.0µm
Ø110-130	34mm	10mm	192mm	±10.0µm	1.0µm
Ø130-150	34mm	10mm	220mm	±10.0µm	1.2µm
Ø150-170	36mm	10mm	248mm	±10.0µm	1.5µm
Ø170-190	36mm	10mm	276mm	±10.0µm	1.5µm
Ø190-210	38mm	10mm	300mm	±10.0µm	1.5µm
Ø210-230	38mm	10mm	324mm	±10.0µm	2.5µm
Ø230-250	40mm	12mm	350mm	±10.0µm	2.5µm
Ø250-270	40mm	12mm	375mm	±10.0µm	3.0µm
Ø270-290	42mm	12mm	400mm	±10.0µm	3.0µm
Ø290-300	42mm	12mm	425mm	±10.0µm	3.0µm
Ø300-320	42mm	12mm	430mm	±10.0µm	4.0µm
Ø320-330	42mm	12mm	440mm	±10.0µm	4.0µm
Ø330-340	42mm	12mm	450mm	±10.0µm	4.0µm
Ø340-350	42mm	12mm	460mm	±10.0µm	4.0µm
Ø350-360	42mm	12mm	470mm	±10.0µm	4.0µm
Ø360-370	42mm	12mm	480mm	±10.0µm	4.0µm
Ø370-380	42mm	12mm	490mm	±10.0µm	4.0µm
Ø380-390	42mm	12mm	500mm	±10.0µm	4.0µm
Ø390-400	42mm	12mm	510mm	±10.0µm	4.0µm

Code	Size
6312-1D5*	Ø1.5mm
6312-2*	Ø2mm
6312-2D5*	Ø2.5mm
6312-3*	Ø3mm
6312-3D5*	Ø3.5mm
6312-4*	Ø4mm
6312-4D5*	Ø4.5mm
6312-5*	Ø5mm
6312-5D5*	Ø5.5mm
6312-6*	Ø6mm
6312-6D5*	Ø6.5mm
6312-7*	Ø7mm
6312-7D5*	Ø7.5mm
6312-8*	Ø8mm
6312-8D5*	Ø8.5mm
6312-9*	Ø9mm
6312-9D5*	Ø9.5mm
6312-10*	Ø10mm
6312-10D5*	Ø10.5mm
6312-11*	Ø11mm
6312-11D5*	Ø11.5mm
6312-12*	Ø12mm
6312-12D5*	Ø12.5mm
6312-13*	Ø13mm
6312-13D5*	Ø13.5mm
6312-14*	Ø14mm
6312-14D5*	Ø14.5mm

Code	Size
6312-15*	Ø15mm
6312-15D5*	Ø15.5mm
6312-16*	Ø16mm
6312-16D5*	Ø16.5mm
6312-17*	Ø17mm
6312-17D5*	Ø17.5mm
6312-18*	Ø18mm
6312-18D5*	Ø18.5mm
6312-19*	Ø19mm
6312-19D5*	Ø19.5mm
6312-20*	Ø20mm
6312-20D5*	Ø20.5mm
6312-21*	Ø21mm
6312-21D5*	Ø21.5mm
6312-22*	Ø22mm
6312-22D5*	Ø22.5mm
6312-23*	Ø23mm
6312-23D5*	Ø23.5mm
6312-24*	Ø24mm
6312-24D5*	Ø24.5mm
6312-25*	Ø25mm
6312-25D5*	Ø25.5mm
6312-26*	Ø26mm
6312-26D5*	Ø26.5mm
6312-27*	Ø27mm
6312-27D5*	Ø27.5mm
6312-28*	Ø28mm

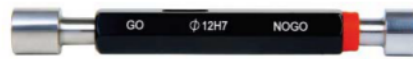
Code	Size
6312-28D5*	Ø28.5mm
6312-29*	Ø29mm
6312-29D5*	Ø29.5mm
6312-30*	Ø30mm
6312-31*	Ø31mm
6312-32*	Ø32mm
6312-33*	Ø33mm
6312-34*	Ø34mm
6312-35*	Ø35mm
6312-36*	Ø36mm
6312-37*	Ø37mm
6312-38*	Ø38mm
6312-39*	Ø39mm
6312-40*	Ø40mm
6312-41*	Ø41mm
6312-42*	Ø42mm
6312-43*	Ø43mm
6312-44*	Ø44mm
6312-45*	Ø45mm
6312-46*	Ø46mm
6312-47*	Ø47mm
6312-48*	Ø48mm
6312-49*	Ø49mm
6312-50*	Ø50mm
6312-55*	Ø55mm
6312-60*	Ø60mm
6312-62*	Ø62mm

Code	Size
6312-65*	Ø65mm
6312-70*	Ø70mm
6312-75*	Ø75mm
6312-80*	Ø80mm
6312-85*	Ø85mm
6312-87*	Ø87mm
6312-90*	Ø90mm
6312-95*	Ø95mm
6312-100*	Ø100mm
6312-112D5*	Ø112.5mm
6312-125*	Ø125mm
6312-137D5*	Ø137.5mm
6312-150*	Ø150mm
6312-162D5*	Ø162.5mm
6312-175*	Ø175mm
6312-187D5*	Ø187.5mm
6312-200*	Ø200mm
6312-212D5*	Ø212.5mm
6312-225*	Ø225mm
6312-237D5*	Ø237.5mm
6312-250*	Ø250mm
6312-262D5*	Ø262.5mm
6312-275*	Ø275mm
6312-287D5*	Ø287.5mm
6312-300*	Ø300mm
6312-350*	Ø350mm
6312-400*	Ø400mm

* Supplied with manufacturer inspection certificate

PLAIN PLUG GAGES

- Supplied with Go and No-Go gages together
- Class H7
- Hardness HRC 60±2
- Standard DIN7150-2

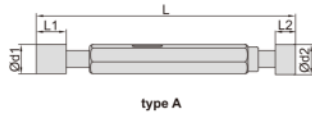


4124-12

CUSTOM-MADE
OTHER CLASSES ARE AVAILABLE, SUCH AS H8, H9
OTHER DIAMETERS ARE AVAILABLE, SUCH AS 19.003mm
OTHER LENGTHS ARE AVAILABLE, SUCH AS 70mm



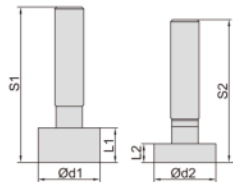
type A



type A



type B



type B

Size tolerance of H7

Diameter Ød	Type	Size tolerance of Go gage (µm)	Size tolerance of No-Go gage (µm)	L1	L2	L	S1, S2
≥2, ≤3	A	+0.5 / +2.5	+9 / +11	6.5	4.5	62	–
>3, ≤6	A	+0.75 / +3.25	+10.75 / +13.25	8	6	74	–
>6, ≤10	A	+0.75 / +3.25	+13.75 / +16.25	10	7	87	–
>10, ≤14	A	+1 / +4	+16.5 / +19.5	12	8	99	–
>14, ≤18	A	+1 / +4	+16.5 / +19.5	14	10	114	–
>18, ≤24	A	+1 / +5	+19 / +23	16	12	132	–
>24, ≤30	A	+1 / +5	+19 / +23	18	14	136	–
>30, ≤40	A	+1.5 / +5.5	+23 / +27	20	15	155	–
>40, ≤50	A	+1.5 / +5.5	+23 / +27	25	18	169	–
>50, ≤65	B	+1.5 / +6.5	+27.5 / +32.5	30	18	–	164, 152
>65, ≤80	B	+1.5 / +6.5	+27.5 / +32.5	35	25	–	169, 159
>80, ≤100	B	+2 / +8	+32 / +38	35	25	–	169, 159

Code	Diameter	Type	Code	Diameter	Type	Code	Diameter	Type	Code	Diameter	Type	Code	Diameter	Type
4124-2	2mm	A	4124-13	13mm	A	4124-24	24mm	A	4124-38	38mm	A	4124-52	52mm	B
4124-3	3mm	A	4124-14	14mm	A	4124-25	25mm	A	4124-39	39mm	A	4124-55	55mm	B
4124-4	4mm	A	4124-15	15mm	A	4124-26	26mm	A	4124-40	40mm	A	4124-60	60mm	B
4124-5	5mm	A	4124-16	16mm	A	4124-28	28mm	A	4124-41	41mm	A	4124-65	65mm	B
4124-6	6mm	A	4124-17	17mm	A	4124-29	29mm	A	4124-42	42mm	A	4124-70	70mm	B
4124-7	7mm	A	4124-18	18mm	A	4124-30	30mm	A	4124-44	44mm	A	4124-75	75mm	B
4124-8	8mm	A	4124-19	19mm	A	4124-31	31mm	A	4124-45	45mm	A	4124-80	80mm	B
4124-9	9mm	A	4124-20	20mm	A	4124-32	32mm	A	4124-46	46mm	A	4124-85	85mm	B
4124-10	10mm	A	4124-21	21mm	A	4124-34	34mm	A	4124-47	47mm	A	4124-100	100mm	B
4124-11	11mm	A	4124-22	22mm	A	4124-35	35mm	A	4124-49	49mm	A			
4124-12	12mm	A	4124-23	23mm	A	4124-36	36mm	A	4124-50	50mm	A			

METRIC THREAD PLUG GAGES

- Supplied with Go and No-Go gages together
- Standard ISO1502
- Supplied with manufacturer inspection certificate



4130-10



Size (mm)		Code		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M0.8	0.2	4130-D8	4130-D8G	–
M0.9	0.225	4130-D9	–	–
M1	0.25	4130-1	–	–
M1.2	0.25	4130-1D2	–	4130-1D2H
M1.4	0.3	4130-1D4	–	4130-1D4H
M1.6	0.35	4130-1D6	4130-1D6G	4130-1D6H
M1.8	0.35	4130-1D8	–	–
M2	0.4	4130-2	4130-2G	4130-2H
M2.2	0.45	4130-2D2	–	–
M2.3	0.4	4130-2D3	–	–
M2.5	0.45	4130-2D5	4130-2D5G	4130-2D5H
M2.6	0.45	4130-2D6	–	–
M3	0.5	4130-3	4130-3G	4130-3H
M3.5	0.6	4130-3D5	4130-3D5G	–
M4	0.7	4130-4	4130-4G	4130-4H
M4.5	0.75	4130-4D5	–	–
M5	0.8	4130-5	4130-5G	–
M6	1	4130-6	4130-6G	4130-6H
M7	1	4130-7	–	–
M8	1.25	4130-8	–	–

Size (mm)		Code		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M9	1.25	4130-9	4130-9G	–
M10	1.5	4130-10	4130-10G	–
M11	1.5	4130-11	–	–
M12	1.75	4130-12	4130-12G	–
M14	2	4130-14	4130-14G	–
M16	2	4130-16	4130-16G	–
M18	2.5	4130-18	4130-18G	4130-18H
M20	2.5	4130-20	4130-20G	–
M22	2.5	4130-22	–	–
M24	3	4130-24	–	–
M27	3	4130-27	–	–
M30	3.5	4130-30	4130-30G	–
M33	3.5	4130-33	–	–
M36	4	4130-36	–	4130-36H
M39	4	4130-39	–	–
M45	4.5	4130-45	–	–
M48	5	4130-48	–	–
M56	5.5	4130-56	–	–
M60	5.5	4130-60	–	–

Set (class 6H)

Code	Thread plug gages included
4130-S7	M3x0.5 (4130-3), M4x0.7 (4130-4), M5x0.8 (4130-5), M6x1 (4130-6), M8x1.25 (4130-8), M10x1.5 (4130-10), M12x1.75 (4130-12)

METRIC FINE THREAD PLUG GAGES

- Supplied with Go and No-Go gages together
- Standard ISO1502
- Supplied with manufacturer inspection certificate



4139-20G

Code example:
"-1A" stands for "4139-1A"

Size (mm)		Code (4139)			Size (mm)		Code (4139)			Size (mm)		Code (4139)		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H	Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H	Nominal diameter	Pitch	Class 6H	Class 6G	
M1	0.2	-1A	-	-	M19	1	-19P	-	-	M38	0.75	-38L	-	
M1.6	0.2	-1D6A	-1D6AG	-		0.5	-20G	-	-		1.5	-38R	-	
M1.8	0.2	-1D8A	-	-	M20	1	-20P	-20PG	-		2	-38T	-	
M2	0.2	-2A	-2AG	-		1.5	-20R	-20RG	-	M39	1	-39P	-	
	0.25	-2B	-2BG	-		2	-20T	-	-		1.5	-39R	-	
M2.5	0.2	-2D5A	-	-	M21	1	-21P	-	-		2	-39T	-	
	0.25	-2D5B	-	-		1.5	-21R	-	-		3	-39V	-	
M3	0.25	-3B	-	-		0.5	-22G	-	-	M40	1	-40P	-	
	0.35	-3D	-	-	M22	1	-22P	-22PG	-		2	-40T	-	
M3.5	0.35	-3D5D	-	-		1.5	-22R	-22RG	-		1	-42P	-	
	0.5	-3D5G	-	-		2	-22T	-	-	M42	1.5	-42R	-42RG	
M4	0.5	-4G	-4GG	-4GH		0.5	-24G	-	-		3	-42V	-42VG	
M4.5	0.5	-4D5G	-	-	M24	1	-24P	-24PG	-		1	-45P	-	
M5	0.25	-5B	-	-		1.25	-24Q	-	-	M45	1.5	-45R	-45RG	
	0.5	-5G	-5GG	-		1.5	-24R	-24RG	-		2	-45T	-	
M6	0.25	-6B	-6BG	-		2	-24T	-24TG	-		3	-45V	-	
	0.5	-6G	-	-		0.5	-25G	-	-		1	-48P	-	
M7	0.5	-7G	-	-	M25	1	-25P	-	-		1.5	-48R	-	
M8	0.5	-8G	-	-		1.5	-25R	-	-		2	-48T	-	
	1	-8P	-8PG	-		2	-25T	-	-		3	-48V	-	
M9	0.5	-9G	-9GG	-	M26	1	-26P	-	-		1	-52P	-	
	0.75	-9L	-	-		1.5	-26R	-	-	M52	1.5	-52R	-	
	1	-9P	-	-		0.5	-27G	-	-		3	-52V	-	
M10	0.5	-10G	-	-		1	-27P	-27PG	-		4	-52X	-	
	1	-10P	-10PG	-	M27	1.5	-27R	-	-27RH		M55	1.5	-55R	-
	1.25	-10Q	-10QG	-		2	-27T	-	-27TH			2	-55T	-
M11	0.5	-11G	-	-		1	-28P	-	-	M56	1.5	-56R	-	
	1	-11P	-	-	M28	1.5	-28R	-28RG	-		3	-56V	-	
M12	0.5	-12G	-12GG	-12GH		2	-28T	-	-		1	-60P	-	
	1	-12P	-12PG	-		0.75	-30L	-	-	M58	2	-60T	-	
	1.25	-12Q	-12QG	-		1	-30P	-	-30PH		3	-60V	-	
	1.5	-12R	-12RG	-	M30	1.5	-30R	-	-30RH					
M13	1.5	-13R	-	-		2	-30T	-30TG	-					
	0.5	-14G	-	-		3	-30V	-	-					
M14	1	-14P	-	-	M31	1.5	-32R	-	-					
	1.25	-14Q	-	-		2	-32T	-	-					
	1.5	-14R	-14RG	-		0.75	-33L	-	-					
M15	0.5	-15G	-	-		1	-33P	-	-					
	1	-15P	-15PG	-15PH	M32	1.5	-33R	-	-					
	1.5	-15R	-15RG	-		2	-33T	-	-					
M16	0.5	-16G	-	-		3	-33V	-	-					
	1	-16P	-	-	M33	1.5	-34R	-	-					
	1.25	-16Q	-	-		2	-34T	-	-					
	1.5	-16R	-	-		1	-36P	-	-					
M17	0.5	-17G	-	-		1.5	-36R	-	-					
	1	-17P	-	-	M36	2	-36T	-	-36TH					
	1.5	-17R	-	-		3	-36V	-	-					
M18	1	-18P	-	-	M37	0.75	-37L	-	-					
	1.5	-18R	-18RG	-										
	2	-18T	-	-										

METRIC THREAD RING GAGES



4120-16



4120-16N

- Standard ISO1502
- Supplied with manufacturer inspection certificate

Code example:
"-2" stands for "4120-2"

Size (mm)		Code (4120)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M2	0.4	-2	-	-	-	-2H	-2HN
M2.2	0.45	-2D2	-2D2N	-	-	-	-
M2.5	0.45	-2D5	-	-	-	-2D5H	-
M2.6	0.45	-2D6	-	-	-	-	-
M3	0.5	-3	-3N	-	-	-3H	-3HN
M3.5	0.6	-3D5	-3D5N	-	-	-	-
M4	0.7	-4	-	-4E	-4EN	-4H	-4HN
M5	0.8	-5	-5N	-5E	-	-5H	-5HN
M6	1	-6	-6N	-6E	-6EN	-6H	-6HN
M7	1	-7	-7N	-	-	-	-
M8	1.25	-8	-8N	-8E	-8EN	-8H	-
M9	1.25	-9	-9N	-9E	-	-	-
M10	1.5	-10	-10N	-10E	-10EN	-10H	-10HN
M11	1.5	-11	-11N	-	-	-	-
M12	1.75	-12	-12N	-12E	-12EN	-12H	-
M14	2	-14	-14N	-	-	-14H	-
M16	2	-16	-16N	-16E	-16EN	-16H	-
M18	2.5	-18	-18N	-	-	-	-
M20	2.5	-20	-20N	-20E	-20EN	-20H	-20HN
M22	2.5	-22	-22N	-	-	-	-
M24	3	-24	-24N	-	-	-	-
M27	3	-27	-	-	-	-27H	-
M30	3.5	-30	-30N	-	-	-30H	-
M33	3.5	-33	-33N	-	-	-	-
M36	4	-36	-36N	-	-	-36H	-36HN
M39	4	-39	-39N	-	-	-	-
M42	4.5	-42	-42N	-	-	-	-
M45	4.5	-45	-45N	-	-	-	-
M48	5	-48	-48N	-	-	-	-
M56	5.5	-56	-56N	-	-	-	-

Go ring gage set (class 6g)

Code	Thread ring gages included
4120-S7	M3x0.5 (4120-3), M4x0.7 (4120-4), M5x0.8 (4120-5), M6x1 (4120-6), M8x1.25 (4120-8), M10x1.5 (4120-10), M12x1.75 (4120-12)

No Go ring gage set (class 6g)

Code	Thread ring gages included
4120-S7N	M3x0.5 (4120-3N), M4x0.7 (4120-4N), M5x0.8 (4120-5N), M6x1 (4120-6N), M8x1.25 (4120-8N), M10x1.5 (4120-10N), M12x1.75 (4120-12N)

METRIC FINE THREAD RING GAGES



4129-9P



4129-9PN

Code example:
"-2D5D" stands for "4129-2D5D"

- Standard ISO1502
- Supplied with manufacturer inspection certificate

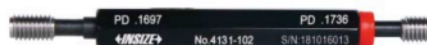
Size (mm)		Code (4129)					
Nominal diameter	Pitch	Class 6g		Class 6e		Class 6h	
		GO	NOGO	GO	NOGO	GO	NOGO
M3	0.35	-3D	-3DN	-	-	-3DH	-3DHN
M3.5	0.35	-3D5D	-3D5DN	-	-	-	-
M4	0.5	-4G	-4GN	-	-	-4GH	4GHN
M4.5	0.5	-4D5G	-4D5GN	-4D5GE	-	-	-
M5	0.5	-5G	-	-	-	-5GH	-
M6	0.5	-6G	-6GN	-	-	-	-
	0.75	-6L	-6LN	-	-	-6LH	-6LHN
M7	0.5	-7G	-7GN	-	-	-	-
	0.75	-7L	-7LN	-7LE	-7LEN	-	-
M8	0.5	-8G	-8GN	-	-	-	-
	0.75	-8L	-8LN	-	-	-	-
	1	-8P	-8PN	-8PE	-8PEN	-8PH	-8PHN
M9	0.5	-9G	-9GN	-	-	-	-
	0.75	-9L	-9LN	-	-	-	-
1	-9P	-9PN	-	-	-9PH	-	
M19	1.5	-19R	-19RN	-	-	-	-
M20	0.5	-20G	-20GN	-	-	-	-
	0.75	-20L	-20LN	-	-	-	-
	1	-20P	-20PN	-20PE	-20PEN	-20PH	-
	1.25	-20Q	-	-	-	-20QH	-20QHN
	1.5	-20R	-20RN	-20RE	-20REN	-	-
M21	2	-20T	-20TN	-	-	-	-
	1	-21P	-21PN	-	-	-	-
	0.75	-22L	-22LN	-	-	-	-
M22	1	-22P	-22PN	-22PE	-22PEN	-	-
	1.5	-22R	-22RN	-22RE	-22REN	-22RH	-22RHN
	2	-22T	-22TN	-	-	-22TH	-
M23	1	-23P	-23PN	-	-	-	-
M24	0.75	-24L	-24LN	-	-	-	-
	1	-24P	-24PN	-	-	-24PH	-24PHN
	1.25	-24Q	-24QN	-	-	-	-
M25	1.5	-24R	-24RN	-	-	-	-
	2	-24T	-	-	-	-24TH	-
	1	-25P	-25PN	-	-	-	-
M26	1.5	-25R	-25RN	-	-	-25RH	-
	2	-25T	-25TN	-	-	-	-
	1	-26P	-26PN	-	-	-	-
M27	1.5	-26R	-26RN	-26RE	-	-	-
	2	-26T	-26TN	-	-	-	-
	0.75	-27L	-27LN	-	-	-	-
M28	1	-27P	-27PN	-	-	-27PH	-
	1.5	-27R	-27RN	-	-	-27RH	-27RHN
	2	-27T	-27TN	-	-	-27TH	-
M28	1	-28P	-28PN	-	-	-	-
	1.5	-28R	-28RN	-	-28REN	-	-
	2	-28T	-	-	-	-28TH	-28THN

Size (mm)		Code (4129)				
Nominal diameter	Pitch	Class 6g	Class 6e	Class 6h		
		GO	NOGO	GO	GO	NOGO
M30	0.75	-30L	-30LN	-	-	-
	1	-30P	-30PN	-	-30PH	-30PHN
	1.5	-30R	-30RN	-	-30RH	-30RHN
	2	-30T	-30TN	-	-30TH	-30THN
M32	3	-30V	-30VN	-	-	-
	1	-32P	-32PN	-	-	-
	1.5	-32R	-32RN	-	-	-
	2	-32T	-32TN	-	-	-
M33	0.75	-33L	-33LN	-	-	-
	1	-33P	-33PN	-	-	-
	1.5	-33R	-33RN	-	-	-
	2	-33T	-33TN	-	-	-
M34	3	-33V	-33VN	-	-	-
	1	-34P	-	-	-	-
M35	1.5	-34R	-	-	-	-
	1	-35R	-35RN	-	-35RH	-
M36	1.5	-36R	-36RN	-	-36RH	-36RHN
	2	-36T	-36TN	-	-36TH	-
	3	-36V	-36VN	-	-	-
	1.5	-38R	-38RN	-	-	-
M39	1	-39P	-39PN	-	-	-
	1.5	-39R	-39RN	-	-	-
	2	-39T	-39TN	-	-	-
	3	-39V	-39VN	-	-	-
M40	1.5	-40R	-40RN	-40RE	-40RH	-40RHN
M42	1.5	-42R	-42RN	-	-42RH	-42RHN
	2	-42T	-42TN	-	-42TH	-42THN
	3	-42V	-42VN	-	-	-
M45	1.5	-45R	-45RN	-	-	-
	2	-45T	-45TN	-	-	-
	3	-45V	-45VN	-45VE	-	-
M48	1.5	-48R	-48RN	-	-	-
	2	-48T	-48TN	-	-48TH	-48THN
	3	-48V	-48VN	-	-48VH	-48VHN
M50	1.5	-50R	-	-	-	-
M52	1.5	-52R	-52RN	-	-52RH	-52RHN
	2	-52T	-52TN	-	-52TH	-
	3	-52V	-52VN	-	-52VH	-52VHN
	4	-52X	-52XN	-	-	-
M55	2	-55T	-55TN	-	-	-
M56	1.5	-56R	-56RN	-	-	-
	2	-56T	-	-	-	-
	3	-56V	-	-	-56VH	-56VHN
	4	-56X	-	-	-	-
M58	1.5	-58R	-58RN	-	-58RH	-58RHN
	2	-58T	-	-	-	-
M60	1.5	-60R	-60RN	-	-	-
	2	-60T	-60TN	-	-	-
	3	-60V	-	-	-	-
	4	-60X	-60XN	-	-	-

AMERICAN STANDARD THREAD PLUG GAGES



- Supplied with Go and No-Go gages together
- Standard ANSI/ASME B1.2
- Supplied with manufacturer inspection certificate



4131-102

Size	Code	
	Class 2B	Class 3B
No. 0-80UNF	4131-02	–
No. 1-64UNC	4131-11	–
No. 1-72UNF	4131-12	–
No. 2-56UNC	4131-21	–
No. 3-56UNF	4131-32	–
No. 4-40UNC	4131-41	4131-41B
No. 4-48UNF	4131-42	4131-42B
No. 5-40UNC	4131-51	4131-51B
No. 6-32UNC	4131-61	4131-61B
No. 6-40UNF	4131-62	–
No. 8-32UNC	4131-81	4131-81B
No. 8-36UNF	4131-82	–
No. 10-24UNC	4131-101	–
No. 10-32UNF	4131-102	4131-102B
No. 12-24UNC	4131-121	–
No. 12-28UNF	4131-122	–
1/4-20UNC	4131-1B1	4131-1B1B
1/4-28UNF	4131-1B2	4131-1B2B
1/4-32UNEF	4131-1B3	–

Size	Code	
	Class 2B	Class 3B
5/16-18UNC	4131-5D1	4131-5D1B
5/16-24UNF	4131-5D2	4131-5D2B
5/16-32UNEF	4131-5D3	4131-5D3B
3/8-16UNC	4131-3C1	4131-3C1B
3/8-24UNF	4131-3C2	4131-3C2B
3/8-32UNEF	4131-3C3	–
7/16-14UNC	4131-7D1	4131-7D1B
7/16-20UNF	4131-7D2	4131-7D2B
1/2-13UNC	4131-1A1	4131-1A1B
1/2-20UNF	4131-1A2	–
1/2-28UNEF	4131-1A3	–
9/16-12UNC	4131-9D1	4131-9D1B
9/16-18UNF	4131-9D2	4131-9D2B
9/16-24UNEF	4131-9D3	–
5/8-11UNC	4131-5C1	4131-5C1B
5/8-18UNF	4131-5C2	4131-5C2B
5/8-24UNEF	4131-5C3	–
11/16-16UN	4131-11D516	–
11/16-24UNEF	4131-11D3	–

Size	Code	
	Class 2B	Class 3B
3/4-10UNC	4131-3B1	4131-3B1B
3/4-16UNF	4131-3B2	4131-3B2B
3/4-20UNEF	4131-3B3	4131-3B3B
13/16-16UN	4131-13D516	–
13/16-20UNEF	4131-13D3	–
7/8-9UNC	4131-7C1	4131-7C1B
7/8-14UNF	4131-7C2	–
1-8UNC	4131-2A1	–
1-12UNF	4131-2A2	–
1-14UNS	4131-2A514	–
1-32UN	4131-2A532	–
1 1/16-12UN	4131-1E512	–
1 1/8-7UNC	4131-1F1	4131-1F1B
1 1/8-8UN	4131-1F58	4131-1F58B
1 1/8-12UNF	4131-1F2	–
1 3/16-12UN	4131-3E512	–
1 1/4-7UNC	4131-1G1	–
1 1/4-8UN	4131-1G58	4131-1G58B
1 1/4-12UNF	4131-1G2	–

AMERICAN STANDARD THREAD RING GAGES



- Standard ANSI/ASME B1.2
- Class 2A
- Supplied with manufacturer inspection certificate



front



back

4121-1B1



front



back

4121-1B1N

Size	Code	
	GO	NOGO
No. 4-40UNC	4121-41	4121-41N
No. 5-40UNC	4121-51	4121-51N
No. 6-32UNC	4121-61	4121-61N
No. 8-32UNC	4121-81	4121-81N
No. 10-32UNF	4121-102	4121-102N
No. 12-24UNC	4121-121	4121-121N
No. 12-28UNF	4121-122	4121-122N
1/4-20UNC	4121-1B1	4121-1B1N
1/4-28UNF	4121-1B2	4121-1B2N
5/16-18UNC	4121-5D1	4121-5D1N
5/16-24UNF	4121-5D2	4121-5D2N
5/16-32UNEF	4121-5D3	4121-5D3N
3/8-16UNC	4121-3C1	4121-3C1N
3/8-24UNF	4121-3C2	4121-3C2N
3/8-32UNEF	4121-3C3	4121-3C3N

Size	Code	
	GO	NOGO
7/16-14UNC	4121-7D1	4121-7D1N
7/16-20UNF	4121-7D2	4121-7D2N
7/16-28UNEF	4121-7D3	4121-7D3N
1/2-13UNC	4121-1A1	4121-1A1N
1/2-20UNF	4121-1A2	4121-1A2N
1/2-28UNEF	4121-1A3	4121-1A3N
9/16-12UNC	4121-9D1	4121-9D1N
9/16-18UNF	4121-9D2	4121-9D2N
5/8-11UNC	4121-5C1	4121-5C1N
5/8-18UNF	4121-5C2	4121-5C2N
11/16-16UN	4121-11D516	4121-11D516N
3/4-10UNC	4121-3B1	4121-3B1N
3/4-16UNF	4121-3B2	4121-3B2N
3/4-20UNEF	4121-3B3	4121-3B3N
13/16-16UN	4121-13D516	4121-13D516N

Size	Code	
	GO	NOGO
7/8-9UNC	4121-7C1	4121-7C1N
7/8-14UNF	4121-7C2	4121-7C2N
7/8-16UN	4121-7C516	4121-7C516N
1-8UNC	4121-2A1	4121-2A1N
1-12UNF	4121-2A2	4121-2A2N
1-14UNS	4121-2A514	4121-2A514N
1-32UN	4121-2A532	4121-2A532N
1 1/8-7UNC	4121-1F1	4121-1F1N
1 1/8-12UNF	4121-1F2	4121-1F2N
1 1/4-7UNC	4121-1G1	4121-1G1N
1 1/4-8UN	4121-1G58	4121-1G58N
1 1/4-12UNF	4121-1G2	4121-1G2N
15/16-12UN	4121-5E512	4121-5E512N

CERAMIC MEASURING BALLS



4190-40D000

- Zirconia material, high strength and hardness, extremely wear resistance and corrosion resistance, good insulation, antistatic and magnetic resistance
- Mirror surface without holes
- Supplied with manufacturer inspection certificate

Individual

Code	Diameter	Accuracy	Roundness
4190-1D000	1.000mm	±2µm	0.5µm
4190-1D200	1.200mm	±2µm	0.5µm
4190-1D300	1.300mm	±2µm	0.5µm
4190-1D340	1.340mm	±2µm	0.5µm
4190-1D500	1.500mm	±2µm	0.5µm
4190-1D588	1.588mm (1/16")	±2µm	0.5µm
4190-1D750	1.750mm	±2µm	0.5µm
4190-2D000	2.000mm	±2µm	0.5µm
4190-2D381	2.381mm (3/32")	±2µm	0.5µm
4190-2D500	2.500mm	±2µm	0.5µm
4190-2D778	2.778mm (7/64")	±2µm	0.5µm
4190-3D000	3.000mm	±2µm	0.5µm
4190-3D175	3.175mm (1/8")	±2µm	0.5µm
4190-3D500	3.500mm	±2µm	0.5µm
4190-3D969	3.969mm (5/32")	±2µm	0.5µm
4190-4D000	4.000mm	±2µm	0.5µm
4190-4D500	4.500mm	±2µm	0.5µm
4190-4D763	4.763mm (3/16")	±2µm	0.5µm
4190-5D000	5.000mm	±2µm	0.5µm
4190-5D556	5.556mm (7/32")	±2µm	0.5µm
4190-5D953	5.953mm (15/64")	±2µm	0.5µm
4190-6D000	6.000mm	±2µm	0.5µm
4190-6D350	6.350mm (1/4")	±2µm	0.5µm
4190-6D500	6.500mm	±2µm	0.5µm
4190-6D747	6.747mm (17/64")	±2µm	0.5µm
4190-7D000	7.000mm	±2µm	0.5µm
4190-7D144	7.144mm (9/32")	±2µm	0.5µm
4190-7D500	7.500mm	±2µm	0.5µm
4190-7D938	7.938mm (5/16")	±2µm	0.5µm
4190-8D000	8.000mm	±2µm	0.5µm
4190-8D731	8.731mm (11/32")	±2µm	0.5µm

Individual

Code	Diameter	Accuracy	Roundness
4190-9D525	9.525mm (3/8")	±2µm	0.5µm
4190-10D000	10.000mm	±2µm	0.5µm
4190-10D318	10.318mm (13/32")	±2µm	0.5µm
4190-11D000	11.000mm	±2µm	0.5µm
4190-11D113	11.113mm (7/16")	±2µm	0.5µm
4190-11D509	11.509mm (29/64")	±2µm	0.5µm
4190-11D906	11.906mm (15/32")	±2µm	0.5µm
4190-12D000	12.000mm	±2µm	0.5µm
4190-12D303	12.303mm (31/64")	±2µm	0.5µm
4190-12D700	12.700mm (1/2")	±2µm	0.5µm
4190-13D000	13.000mm	±2µm	0.6µm
4190-13D494	13.494mm (17/32")	±2µm	0.6µm
4190-14D000	14.000mm	±2µm	0.6µm
4190-14D288	14.288mm (9/16")	±2µm	0.6µm
4190-15D000	15.000mm	±2µm	0.6µm
4190-15D081	15.081mm (19/32")	±2.5µm	0.6µm
4190-15D875	15.875mm (5/8")	±2.5µm	0.6µm
4190-16D000	16.000mm	±2.5µm	0.6µm
4190-16D669	16.669mm (21/32")	±2.5µm	0.6µm
4190-17D462	17.462mm (11/16")	±2.5µm	0.6µm
4190-18D000	18.000mm	±2.5µm	0.6µm
4190-18D256	18.256mm (23/32")	±2.5µm	0.6µm
4190-19D050	19.050mm (3/4")	±2.5µm	0.6µm
4190-19D844	19.844mm (25/32")	±2.5µm	0.6µm
4190-20D000	20.000mm	±2.5µm	0.6µm
4190-22D000	22.000mm	±2.5µm	1µm
4190-22D225	22.225mm (7/8")	±2.5µm	1µm
4190-23D812	23.812mm (15/16")	±2.5µm	1µm
4190-25D000	25.000mm	±2.5µm	1µm
4190-40D000	40.000mm	±2.5µm	1.5µm

Set (25 pairs)

Code	Ceramic balls included (one pair per size)
4190-S25	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 6, 6.5, 7, 7.5, 8, 10, 11, 12, 13, 14, 15, 16, 18, 20, 22, 25mm