

Plug gauges

Manufactured according DIN 2245, 2246 and 2247. Available from 0.5 to 250 mm; up to 70 mm with Go and NoGo on one handle, over 70 mm in two parts. Prices are for H7 plug gauges with Go and NoGo ends in hardened steel.

- H7 fit size in hardened steel.
- Available from 0.5 to 160 mm; up to 70 mm with Go and NoGo on one handle, over 70 mm in two parts.
- Including wear allowance at the Go end.

Wear allowance

New gauges are supplemented with a wear allowance on the Go end: z (plus) for plug gauges. Accordingly, the size indicated on the handle is not similar to the measured value of the new Go end.

Example: plug gauge 20 H7

New Go end:

size	20.000 mm
wear allowance (+z)	<u>0.003 mm</u>
	20.003 mm
manufacturing tolerance	± 0.002 mm
largest value measured	20.005 mm
smallest value measured	20.001 mm

Also available:

- larger sizes,
- without wear allowance,
- many other fit sizes, like H6, H8, P7, G7 etc.,
- hard-chrome plated plug gauges,
- tungsten carbide plug gauges,
- extended plug gauges,
- plug gauges with vent hole,
- plug gauges with easy-entry pilot.



Measuring reports

For all gauges also measuring reports can be ordered.

- ① Inspection report (German) per gauge. Stating of product specifications, measured values after production, used traceable measuring devices, measuring inaccuracy and measuring date. A favourable choice when your quality system does not require traceable certificates.
- ② Traceable certificate (Dutch) with measuring reports of the ordered gauges. Besides stating of the measured values the extra assurance of an external inspection.



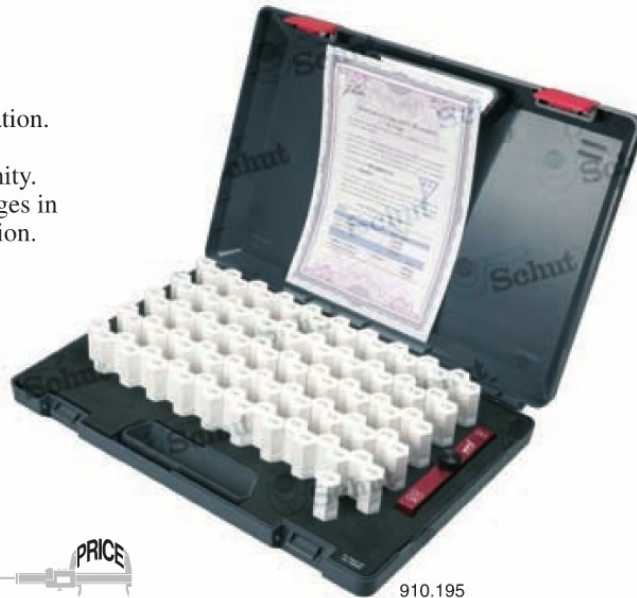
Size H7 mm	Price EUR	Size H7 mm	Price EUR	Size H7 mm	Price EUR	Size H7 mm	Price EUR	Size H7 mm	Price EUR
1		10		24		42		70	
1.5		11		25		44		72	
2		12		26		45		75	
2.5		13		27		46		78	
3		14		28		47		80	
3.5		15		30		48		82	
4		16		32		50		85	
4.5		17		33		52		88	
5		18		34		55		90	
5.5		19		35		58		92	
6		20		36		60		95	
7		21		37		62		98	
8		22		38		65		100	
9		23		40		68			

Larger sizes available on request.

Pin gauges in sets

Hardened steel pin gauges in sets with favourable price-performance ratio, very well suited for workshop use. Delivery in plastic case with a declaration of conformity and holder for Go/NoGo determination.

- Hardened steel.
- Diameter range: 0.50- 20.00 mm.
- Increment: 0.01 mm.
- Accuracy: ± 0.003 mm.
- Without handle.
- Pin gauges $> \phi 1.5$ mm with size indication.
- Length: 50 mm.
- Delivery with a declaration of conformity.
- Delivery in a plastic case with pin gauges in separate plastic tubes with size indication.
- Delivery with holder with Go/NoGo indication.



910.195

NEW



Item No.	Diameter mm	Increment mm	Number per set	Price EUR
910.193	0.50- 1.00	0.01	51	
910.194	1.00- 2.00	0.01	101	
910.195	2.00- 3.00	0.01	101	
910.196	3.00- 4.00	0.01	101	
910.197	4.00- 5.00	0.01	101	
910.198	5.00- 6.00	0.01	101	
910.199	6.00- 7.00	0.01	101	
910.200	7.00- 8.00	0.01	101	
910.201	8.00- 9.00	0.01	101	
910.202	9.00-10.00	0.01	101	
910.203	10.00-11.00	0.01	101	
910.204	11.00-12.00	0.01	101	
910.205	12.00-13.00	0.01	101	
910.206	13.00-14.00	0.01	101	
910.207	14.00-15.00	0.01	101	
910.208	15.00-16.00	0.01	101	
910.209	16.00-17.00	0.01	101	
910.210	17.00-18.00	0.01	101	
910.211	18.00-19.00	0.01	101	
910.212	19.00-20.00	0.01	101	



910.213

Options:

- 910.213 Pin gauge handle
Go-NoGo 0-13 mm
- 910.214 Pin gauge handle
Go-NoGo 13-20 mm

C12.306-QControl-20180702

Pin gauges

Swiss made, hardened and ground steel pin gauges, conforms to DIN 2269; available **loose and in sets**.

- Hardened, ground, and seasoned steel (HV 760±50).
- Diameter range:
without handle: 0.06 - 20.00 mm,
with handle: 0.06 - 10.00 mm.
- Increment: 0.01 mm.
- Accuracy: ±0.0015 mm.
- Pin gauges ø5.00 - 20.00 mm without handle: indication on head.



Also available:

With an accuracy of ±0.0003 or ±0.001 mm;
 – hardened steel ø0.06 - 20.00 mm,
 – tungsten carbide or ceramics ø0.50 - 9.99 mm, with 0.01 mm increments. The length may deviate. More information available on request.

Diameter/mm	Length/mm	Price EUR
Pin gauge without handle:		
0.06 - 0.09 ¹	30	
0.10 - 0.19 ¹	40	
0.20 - 0.29 ¹	40	
0.30 - 0.49 ¹	40	
0.50 - 0.99 ¹	40	
1.00 - 2.99	70	
3.00 - 4.00	70	
4.01 - 5.00	70	
5.01 - 5.99	70	
6.00 - 9.99	70	
10.00 - 11.99	70	
12.00 - 13.99	70	
14.00 - 15.99	70	
16.00 - 18.99	70	
19.00 - 20.00	70	
Pin gauge with handle²:		
0.06 - 0.09 ¹	23	
0.10 - 0.19 ¹	33	
0.20 - 0.29 ¹	33	
0.30 - 0.49 ¹	33	
0.50 - 0.99 ¹	33	
1.00 - 2.99	62	
3.00 - 4.00	62	
4.01 - 5.00	62	
5.01 - 5.99	62	
6.00 - 10.00	62	

Item No.	Description	Price EUR
Wooden case (tubes not included):		
833.211	For 50 pin gauges ø0.10 - 10.00 mm without handle	
833.704	For 100 pin gauges ø0.10 - 10.00 mm without handle	
833.264	For 50 pin gauges ø0.10 - 10.00 mm with handle	
833.118	For 40 pin gauges ø 10.01 - 15.00 mm	
833.705	For 80 pin gauges ø 10.01 - 15.00 mm	
833.706	For 30 pin gauges ø 15.01 - 20.00 mm	
Pin gauge tube for pin gauges¹:		
833.066	Without handle up to ø0.99 mm	
838.224	Without handle ø 1.00 - 7.00 mm	
838.089	With handle up to ø0.99 mm	

¹ For insert in wooden case.



¹ Delivery in plastic transport case.
² The length here indicates the measuring length and not the total length of the pin gauges.

012.204.QControl.20180702

Pin gauges in sets

- Hardened, ground, and seasoned steel (HV 760 ± 50).
- Diameter range: 0.10- 10.00 mm.
- Increment: 0.01 mm.
- Accuracy: ±0.0015 mm.
- Without handle.
- Pin gauges ø5.00- 10.00 mm: indication on head.
- Length: ø0.10- 0.99 mm: 40 mm, ø1.00- 10.00 mm: 70 mm.
- Sets with larger diameters and/or with handle are available on request.



Item No.	Diameter mm	Increment mm	Number per set	Price* EUR
833.901	0.10- 1.00	0.01	91	
833.902	1.00- 2.00	0.01	101	
833.903	2.00- 3.00	0.01	101	
833.904	3.00- 4.00	0.01	101	
833.905	4.00- 5.00	0.01	101	
833.906	5.00- 6.00	0.01	101	
833.907	6.00- 7.00	0.01	101	
833.908	7.00- 8.00	0.01	101	
833.909	8.00- 9.00	0.01	101	
833.910	9.00- 10.00	0.01	101	
834.190	1.00- 10.00	0.10	91	



* Prices per set, in wooden case.

Pin gauges accessories

Interchangeable handles

- For pin gauges without handle.



Item No.	For diameter/mm	Price EUR
836.043	0.40- 0.80	
834.172	0.80- 1.30	
836.044	1.30- 1.80	
836.045	1.80- 2.30	
837.615	2.30- 2.80	
837.956	2.80- 3.30	
837.957	3.30- 3.80	
837.958	3.80- 4.30	
837.959	4.30- 4.80	
837.960	4.80- 5.30	

Holders for Go/NoGo determination

- For two pin gauges without handle.
- With NoGo indication.



Item No.	For diameter/mm	Price EUR
833.310	1.00- 2.00	
833.311	2.00- 4.00	
833.312	4.00- 6.00	
833.313	6.00- 8.00	
833.314	8.00- 10.00	



C12.203.QControl.20180702

Plug gauges

Ground and lapped, hardened tool steel plug gauges with a high accuracy. Available per piece and in sets. Swiss made.

- Diameter range: \varnothing 0.06 - 10.00 mm.
- Increment: 0.01 mm.
- Accuracy: \pm 0.0005 mm.
- Hardened tool steel (HV 760 \pm 50). Ground and lapped.
- Measuring length (and total length):
 - \varnothing 0.06 - 0.30 mm: 2 mm (34 mm),
 - \varnothing 0.31 - 0.50 mm: 3.5 mm (35.5 mm),
 - \varnothing 0.51 - 1.50 mm: 5 mm (37 mm),
 - \varnothing 1.51 - 2.00 mm: 6 mm (38 mm),
 - \varnothing 2.01 - 3.50 mm: 8 mm (43 mm),
 - \varnothing 3.51 - 6.00 mm: 10 mm (55 mm),
 - \varnothing 6.01 - 8.00 mm: 14 mm (59 mm),
 - \varnothing 8.01 - 10.00 mm: 18 mm (63 mm).
- Size indication on the insulated handle.
- Also available in tungsten carbide and ceramic with an accuracy of \pm 0.001 mm.



Per piece

Diameter/mm	Price EUR
0.06 - 0.09	
0.10 - 0.19	
0.20 - 0.29	
0.30 - 0.49	
0.50 - 0.99	
1.00 - 2.99	
3.00 - 5.99	
6.00 - 10.00	

Sets

Item No.	Diameter mm	Pieces	Price EUR
833.761	0.06 - 0.50	45	
833.762	0.51 - 1.00	50	
833.763	1.01 - 1.50	50	
833.764	1.51 - 2.00	50	
833.765	2.01 - 2.50	50	
833.766	2.51 - 3.00	50	
833.767	3.01 - 3.50	50	
833.768	3.51 - 4.00	50	
837.311	4.01 - 4.50	50	
837.312	4.51 - 5.00	50	
837.313	5.01 - 5.50	50	
837.314	5.51 - 6.00	50	
837.315	6.01 - 6.50	50	
837.316	6.51 - 7.00	50	
837.317	7.01 - 7.50	50	
837.318	7.51 - 8.00	50	
837.319	8.01 - 8.50	50	
837.320	8.51 - 9.00	50	
837.321	9.01 - 9.50	50	
837.322	9.51 - 10.00	50	



Select setting rings

Setting rings, manufactured according DIN 2250 form C, 1 to 4 mm.

The size is indicated on the ring to three decimal places.

For all gauges also measuring reports can be ordered.



Item No.	Size/mm	Price EUR
830.001	1	
830.002	1.2	
830.003	1.5	
830.004	1.8	
830.005	2	
830.006	2.2	
830.007	2.5	
830.008	2.8	
830.009	3	
830.010	4	

Setting rings

Setting rings, manufactured according DIN 2250 form C, 1 to 315 mm.

- DIN 2250 form C.
- Material: hardened steel.
- The size is indicated on the setting rings to three decimal places to 100 mm. From 100 mm the nominal size is indicated in mm and separately the deviation in μm .
- Price on request up to 3 mm.

Also available:

- Higher accuracy,
- in tungsten carbide from 3 to 38 mm,
- form B rings for pneumatic measuring tools,
- intermediate and larger sizes,
- with coating,
- Go and NoGo limit ring gauges.



Size mm	Price EUR	Size mm	Price EUR	Size mm	Price EUR	Size mm	Price EUR	Size mm	Price EUR
1		18		43		80		165	
1.2		19		44		82		170	
1.5		20		45		84		175	
1.8		21		46		85		180	
2		22		47		86		185	
2.2		23		48		88		190	
2.5		24		49		90		195	
2.8		25		50		92		200	
3		26		52		94		210	
3.5		27		54		95		220	
4		28		55		96		230	
4.5		29		56		98		240	
5		30		58		100		250	
6		31		60		105		260	
7		32		62		110		270	
8		33		64		115		280	
9		34		65		120		290	
10		35		66		125		300	
11		36		68		130		310	
12		37		70		135		315	
13		38		72		140			
14		39		74		145			
15		40		75		150			
16		41		76		155			
17		42		78		160			

Intermediate sizes over 3 mm are also available

Measuring reports

For all gauges also measuring reports can be ordered.

- ① Inspection report (German) per gauge. Stating of product specifications, measured values after production, used traceable measuring devices, measuring inaccuracy and measuring date. A favourable choice when your quality system does not require traceable certificates.
- ② Traceable certificate (Dutch) with measuring reports of the ordered gauges. Besides stating of the measured values the extra assurance of an external inspection.

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Thread gauges

The prices of the thread gauges apply to the following tolerances:

Kind of thread	Tolerances	
	Thread plug gauge	Thread ring gauge
Metric thread according ISO 1502 (DIN 13) up to and incl. M1.4 larger than M1.4	5H 6H	6h 6g (standard) 4h and 6e
Fixing pipe thread DIN EN ISO 228	center	A
Trapezoidal thread DIN 103	7H	7e

Other tolerances, sizes and kinds of threads are available on request; also available are special screw threads as per your design. Left-hand screw thread: price on request.



Measuring reports

For all gauges also measuring reports can be ordered.

- ① Inspection report (German) per gauge. Stating of product specifications, measured values after production, used traceable measuring devices, measuring inaccuracy and measuring date. A favourable choice when your quality system does not require traceable certificates.
- ② Traceable certificate (Dutch) with measuring reports of the ordered gauges. Besides stating of the measured values the extra assurance of an external inspection.

Thread plug and ring gauges

Hardened steel thread plug gauges (up to M39: Go + NoGo, from M42: Go and NoGo separate) and thread ring gauges (Go or NoGo) for metric screw thread (ISO) with coarse pitch. Manufactured according ISO 1502 (DIN 13).

Indication M...	Price EUR Thread plug	Price EUR Thread ring
1 x 0.25		
1.2 x 0.25		
1.4 x 0.3		
1.6 x 0.35		
1.8 x 0.35		
2 x 0.4		
2.2 x 0.45		
2.5 x 0.45		
3 x 0.5		
3.5 x 0.6		
4 x 0.7		
4.5 x 0.75		
5 x 0.8		
6 x 1		
8 x 1.25		
10 x 1.5		
12 x 1.75		
14 x 2		
16 x 2		
18 x 2.5		
20 x 2.5		
22 x 2.5		
24 x 3		
27 x 3		
30 x 3.5		
33 x 3.5		
36 x 4		
39 x 4		
Indication M...	Thread plug Go	Thread ring NoGo
42 x 4.5		
45 x 4.5		
48 x 5		
52 x 5		
56 x 5.5		
60 x 5.5		

Also most common sets available.



C12.2008-QControl-20190702

Thread plug and ring gauges (continued)

Hardened steel thread plug gauges (Go + NoGo) and thread ring gauges (Go or NoGo) for metric screw thread (ISO) with pitch 0.5, 0.75, 1, 1.5. Manufactured according ISO 1502 (DIN 13).



Hardened steel thread plug gauges (up to 1 1/4": Go + NoGo, from 1 3/8": Go and NoGo separate) and thread ring gauges (Go or NoGo) for American screw thread UNC and UNF manufactured according ANSI B1.2 class 2B (thread plug) and BS 919 2A (thread ring; manufactured according ANSI B1.2 class 2A available on request).



Hardened steel thread plug gauges (up to G1": Go + NoGo, from G1 1/8": Go and NoGo separate) and thread ring gauges (Go or NoGo) for non-sealing fixing pipe thread. Manufactured according DIN EN ISO 228.



Hardened steel tapered thread plug and thread ring gauges NPT for sealing pipe thread. Manufactured according ANSI/ASME B1.20.1.

Hardened steel thread plug and thread ring gauges for sealing pipe thread. Manufactured according DIN 2999. DIN 2999 is replaced with DIN EN 10226 (ISO 7).



C12.209-QControl-20180702

Thread plug and ring gauges in sets

Sets of thread plug gauges or thread ring gauges for inspection of metric ISO threads.

- For threads M3, M4, M5, M6, M8, M10 and M12.
- Tolerance class:
thread plug gauges: 6H,
thread ring gauges: 6g.
- Hardened steel, thread plug gauges with aluminum grip.
- Manufactured according ISO 1502 (DIN 13).
- Delivery in a wooden case with a traceable measuring report.



836.562



836.561



Item No.	Thread gauges set	Price EUR
836.561	Plug gauges (Go+NoGo)	
836.562	Ring gauges (Go)	
836.563	Ring gauges (NoGo)	



Plug gauges and setting rings in sets

- Hardened steel, plug gauges with aluminum grip.
- Set setting rings manufactured according DIN 2250 form C.
- Set plug gauges manufactured according DIN 2248/2249.
- Delivery in a wooden case with a traceable measuring report.



Item No.	Description	Price EUR
836.564	Setting rings: ϕ 4, ϕ 5, ϕ 6, ϕ 8 mm	
836.565	Setting rings: ϕ 10, ϕ 12, ϕ 16, ϕ 20, ϕ 25 mm	
836.566	Plug gauges (Go+NoGo) H7: 3, 4, 5, 6, 8, 10, 12 mm	



012.212.QControl.20180702