

Tolerances

In case of no indication of tolerance class in the order the intensively framed tolerance class of the table becomes supplied. For thread ring gauges of round threads DIN 405 the tolerance class has to be indicated. NO GO thread plug gauges or NO GO parts

of limit thread plug gauges according to ANSI B1.2 for Unified inch screw threads are supplied with „minus“ tolerance. If a „plus“ tolerance is required it has to be stated on the order.

Metric ISO-thread DIN 13

Tolerance zones screw-in group „N“ (normal)

Gauge dimensions DIN ISO 1502

Tolerance zone	Tolerance zone external thread	Tolerance zone internal thread	Surface condition
fine (l)	4 h	5 H	blank or thin phosphate coating
medium (m)	for threads 1-1.4 mm 6 h	for threads 1-1.4 mm 5 H	blank, phosphorized or for thin galvanic protection layer
	for threads more than 1-1.4 mm 6 g	for threads more than 1-1.4 mm 6 H	
coarse (g)	8 g	7 H	

British Standard Withworth threads British Standard fine threads BS 84

Gauge dimensions BS 919

External thread	close class	medium class*	free class*
Internal thread	medium class	normal class	normal class

* GO thread ring gauges, NO GO thread ring gauges and limit thread caliper gauges as well as limit thread setting gauges for external threads up to 3/4" nominal size are supplied in the tolerance classes „medium“ and „free“ and in the outfit „unplated“. If the outfit „afterplating“ is required this has to be indicated separately when ordering.

Cylindrical pipe threads DIN ISO 228 Part 1

Gauge dimensions DIN ISO 228 Part 2

Tolerance class	internal thread / bolt	medium (m) A	coarse (g) B
Tolerance class	internal thread / nut	medium (m)	--

ISO-metric trapezoidal threads DIN 103

Tolerance zones screw-in group „N“ (normal)

Gauge dimensions DIN 103 Part 9

Tolerance classes	Tolerance zone external thread	Tolerance zone internal thread
medium (m)	7 e	7 H
coarse (g)	8 c	9 H

Round thread DIN 405-1, 405-2

Tolerance zones screw-in group „N“ (normal)

Gauge dimensions DIN 405-3

Tolerance zone external thread	Tolerance zone internal thread
7 h and 7 e	7 H

Unified inch screw threads ANSI B1.1

UNC-UNF-4 UN-6 UN-12 UN-16 UN-20 UN-28 UN-32 UN-UNS (special thread)

Gauge dimensions thread plug gauges ANSI B 1.2

Thread ring gauges BS 919

Tolerance classes			
External thread (bolt)	1 A	2 A	3 A
Internal thread (nut)	1 B	2 B	3 B

Thread gauges
for
metric thread,
coarse
No. 000

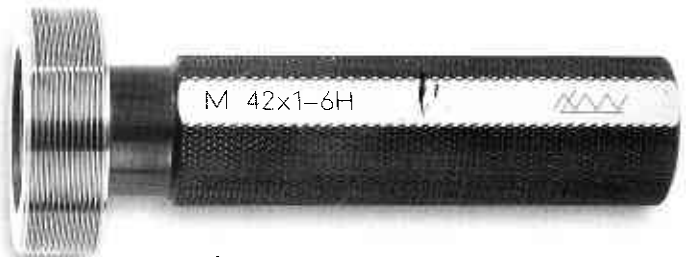
Nominal thread Ø			Limit thread plug gauge	GO thread plug gauge	NO GO thread plug gauge	GO or NO GO thread ring gauge	Limit thread setting gauge	Limit thread caliper gauge	Limit plug gauge for minor diameter
M	5	x 0.75	x	x	x	x	x	x	x
M	1	(x 0.25)	x	x	x	x	x	—	x
M	1.1	(x 0.25)	x	x	x	x	x	—	x
M	1.2	(x 0.25)	x	x	x	x	x	—	x
M	1.4	(x 0.3)	x	x	x	x	x	—	x
M	1.6	(x 0.35)	x	x	x	x	x	—	x
M	1.8	(x 0.35)	x	x	x	x	x	—	x
M	2	(x 0.4)	x	x	x	x	x	—	x
M	2.2	(x 0.45)	x	x	x	x	x	—	x
M	2.5	(x 0.45)	x	x	x	x	x	—	x
M	3	(x 0.5)	x	x	x	x	x	x	x
M	3.5	(x 0.6)	x	x	x	x	x	x	x
M	4	(x 0.7)	x	x	x	x	x	x	x
M	4.5	(x 0.75)	x	x	x	x	x	x	x
M	5	(x 0.8)	x	x	x	x	x	x	x
M	6	(x 1.0)	x	x	x	x	x	x	x
M	7	(x 1.0)	x	x	x	x	x	x	x
M	8	(x 1.25)	x	x	x	x	x	x	x
M	9	(x 1.25)	x	x	x	x	x	x	x
M	10	(x 1.5)	x	x	x	x	x	x	x
M	12	(x 1.75)	x	x	x	x	x	x	x
M	14	(x 2.0)	x	x	x	x	x	x	x
M	16	(x 2.0)	x	x	x	x	x	x	x
M	18	(x 2.5)	x	x	x	x	x	x	x
M	20	(x 2.5)	x	x	x	x	x	x	x
M	22	(x 2.5)	x	x	x	x	x	x	x
M	24	(x 3.0)	x	x	x	x	x	x	x
M	27	(x 3.0)	x	x	x	x	x	x	x
M	30	(x 3.5)	x	x	x	x	x	x	x
M	33	(x 3.5)	x	x	x	x	x	x	x
M	36	(x 4.0)	x	x	x	x	x	x	x
M	39	(x 4.0)	x	x	x	x	x	x	x
M	42	(x 4.5)	x	x	x	x	x	x	x
M	45	(x 4.5)	x	x	x	x	x	x	x
M	48	(x 5.0)	x	x	x	x	x	x	x
M	52	(x 5.0)	x	x	x	x	x	x	x
M	56	(x 5.5)	x	x	x	x	x	x	x
M	60	(x 5.5)	x	x	x	x	x	x	x
M	64	(x 6.0)	x	x	x	x	x	x	x
M	68	(x 6.0)	x	x	x	x	x	x	x



Limit thread plug gauge
from 1 mm - 40 mm nominal diameter



GO thread plug gauge
above 40 mm - 200 mm nominal



NO GO thread plug gauge
above 40 mm - 200 mm nominal diameter



GO thread ring gauge



NO GO thread ring gauge



**Thread gauges
for
metric thread,
fine
No. 003**

pitch 0.35 mm

Nominal thread Ø

M	2	x 0.35
M	2.2	x 0.35
M	2.5	x 0.35
M	3	x 0.35
M	3.5	x 0.35
M	4	x 0.35
M	4.5	x 0.35
M	5	x 0.35
M	5.5	x 0.35
M	6	x 0.35
M	6.5	x 0.35
M	7	x 0.35
M	7.5	x 0.35
M	8	x 0.35
M	9	x 0.35
M	9.5	x 0.35
M	10	x 0.35

	Limit thread plug gauge	GO thread plug gauge	NO GO thread plug gauge	GO or NO GO thread ring gauge	Limit thread setting gauge	Limit thread caliper gauge	Limit plug gauge for minor diameter
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x



Limit thread caliper gauge

Thread Gauges

**Thread gauges
for
metric thread,
fine
No. 004**

pitch 0.5 mm

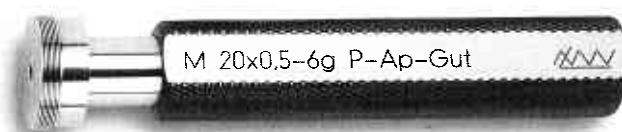
Nominal thread Ø

M	2	x 0.35
M	2.2	x 0.35
M	2.5	x 0.35
M	3	x 0.35
M	3.5	x 0.35
M	4	x 0.35
M	4.5	x 0.35
M	5	x 0.35
M	5.5	x 0.35
M	6	x 0.35
M	6.5	x 0.35
M	7	x 0.35
M	7.5	x 0.35
M	8	x 0.35
M	9	x 0.35
M	9.5	x 0.35
M	10	x 0.35

	Limit thread plug gauge	GO thread plug gauge	NO GO thread plug gauge	GO or NO GO thread ring gauge	Limit thread setting gauge	Limit thread caliper gauge	Limit plug gauge for minor diameter
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x
x	x	x	x	x	x	—	x



Limit thread setting gauge



Wear inspection plug gauge
for GO ring gauge

Thread gauges for the pitch sizes
0.2 and 0.25 mm on request.



Thread Gauges

Thread gauges for metric thread, fine No. 005

pitch 0.75 mm

Nominal thread Ø

			Limit thread plug gauge	GO thread plug gauge	NO GO thread plug gauge	GO or NO GO thread ring gauge	Limit thread setting gauge	Limit thread caliper gauge	Limit plug gauge for minor diameter
M	5	x 0.75	x	x	x	x	x	x	x
M	6	x 0.75	x	x	x	x	x	x	x
M	7	x 0.75	x	x	x	x	x	x	x
M	8	x 0.75	x	x	x	x	x	x	x
M	9	x 0.75	x	x	x	x	x	x	x
M	10	x 0.75	x	x	x	x	x	x	x
M	11	x 0.75	x	x	x	x	x	x	x
M	12	x 0.75	x	x	x	x	x	x	x
M	13	x 0.75	x	x	x	x	x	x	x
M	14	x 0.75	x	x	x	x	x	x	x
M	15	x 0.75	x	x	x	x	x	x	x
M	16	x 0.75	x	x	x	x	x	x	x
M	17	x 0.75	x	x	x	x	x	x	x
M	18	x 0.75	x	x	x	x	x	x	x
M	19	x 0.75	x	x	x	x	x	x	x
M	20	x 0.75	x	x	x	x	x	x	x
M	21	x 0.75	x	x	x	x	x	x	x
M	22	x 0.75	x	x	x	x	x	x	x
M	23	x 0.75	x	x	x	x	x	x	x
M	24	x 0.75	x	x	x	x	x	x	x
M	25	x 0.75	x	x	x	x	x	x	x
M	26	x 0.75	x	x	x	x	x	x	x
M	27	x 0.75	x	x	x	x	x	x	x
M	28	x 0.75	x	x	x	x	x	x	x
M	29	x 0.75	x	x	x	x	x	x	x
M	30	x 0.75	x	x	x	x	x	x	x

Thread gauges for metric thread, fine No. 007

pitch 1.25 mm

Nominal thread Ø

			Limit thread plug gauge	GO thread plug gauge	NO GO thread plug gauge	GO or NO GO thread ring gauge	Limit thread setting gauge	Limit thread caliper gauge	Limit plug gauge for minor diameter
M	10	x 1.25	x	x	x	x	x	x	x
M	12	x 1.25	x	x	x	x	x	x	x
M	14	x 1.25	x	x	x	x	x	x	x

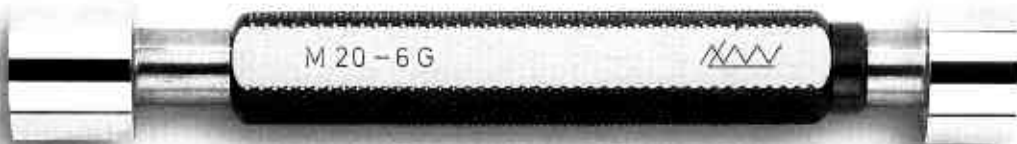
Thread gauges for metric thread, fine No. 006

pitch 1 mm

Nominal thread Ø

			Limit thread plug gauge	GO thread plug gauge	NO GO thread plug gauge	GO or NO GO thread ring gauge	Limit thread setting gauge	Limit thread caliper gauge	Limit plug gauge for minor diameter
M	8	x 1	x	x	x	x	x	x	x
M	9	x 1	x	x	x	x	x	x	x
M	10	x 1	x	x	x	x	x	x	x
M	11	x 1	x	x	x	x	x	x	x
M	12	x 1	x	x	x	x	x	x	x
M	13	x 1	x	x	x	x	x	x	x
M	14	x 1	x	x	x	x	x	x	x
M	15	x 1	x	x	x	x	x	x	x
M	16	x 1	x	x	x	x	x	x	x
M	17	x 1	x	x	x	x	x	x	x
M	18	x 1	x	x	x	x	x	x	x
M	19	x 1	x	x	x	x	x	x	x
M	20	x 1	x	x	x	x	x	x	x
M	21	x 1	x	x	x	x	x	x	x
M	22	x 1	x	x	x	x	x	x	x
M	23	x 1	x	x	x	x	x	x	x
M	24	x 1	x	x	x	x	x	x	x
M	25	x 1	x	x	x	x	x	x	x
M	26	x 1	x	x	x	x	x	x	x
M	27	x 1	x	x	x	x	x	x	x
M	28	x 1	x	x	x	x	x	x	x
M	30	x 1	x	x	x	x	x	x	x
M	32	x 1	x	x	x	x	x	x	x
M	33	x 1	x	x	x	x	x	x	x
M	34	x 1	x	x	x	x	x	x	x
M	35	x 1	x	x	x	x	x	x	x
M	36	x 1	x	x	x	x	x	x	x
M	38	x 1	x	x	x	x	x	x	x
M	39	x 1	x	x	x	x	x	x	x
M	40	x 1	x	x	x	x	x	x	x
M	42	x 1	x	x	x	x	x	x	x
M	45	x 1	x	x	x	x	x	x	x
M	48	x 1	x	x	x	x	x	x	x
M	50	x 1	x	x	x	x	x	x	x
M	52	x 1	x	x	x	x	x	x	x
M	55	x 1	x	x	x	x	x	x	x
M	56	x 1	x	x	x	x	x	x	x
M	58	x 1	x	x	x	x	x	x	x
M	60	x 1	x	x	x	x	x	x	x
M	62	x 1	x	x	x	x	x	x	x
M	64	x 1	x	x	x	x	x	x	x
M	65	x 1	x	x	x	x	x	x	x
M	68	x 1	x	x	x	x	x	x	x
M	70	x 1	x	x	x	x	x	x	x
M	72	x 1	—	x	x	x	x	x	x
M	75	x 1	—	x	x	x	x	x	x
M	76	x 1	—	x	x	x	x	x	x
M	78	x 1	—	x	x	x	x	x	x
M	80	x 1	—	x	x	x	x	x	x

Limit plug gauge for minor diameter



Thread gauges
for
metric thread,
fine
No. 008

pitch 1.5 mm

Nominal thread Ø

			Limit thread plug gauge	GO thread plug gauge	NO GO thread plug gauge	GO or NO GO thread ring gauge	Limit thread setting gauge	Limit thread caliper gauge	Limit plug gauge for minor diameter
M	12	x 1.5	x	x	x	x	x	x	x
M	13	x 1.5	x	x	x	x	x	x	x
M	14	x 1.5	x	x	x	x	x	x	x
M	15	x 1.5	x	x	x	x	x	x	x
M	16	x 1.5	x	x	x	x	x	x	x
M	17	x 1.5	x	x	x	x	x	x	x
M	18	x 1.5	x	x	x	x	x	x	x
M	20	x 1.5	x	x	x	x	x	x	x
M	22	x 1.5	x	x	x	x	x	x	x
M	24	x 1.5	x	x	x	x	x	x	x
M	25	x 1.5	x	x	x	x	x	x	x
M	26	x 1.5	x	x	x	x	x	x	x
M	27	x 1.5	x	x	x	x	x	x	x
M	28	x 1.5	x	x	x	x	x	x	x
M	30	x 1.5	x	x	x	x	x	x	x
M	32	x 1.5	x	x	x	x	x	x	x
M	33	x 1.5	x	x	x	x	x	x	x
M	34	x 1.5	x	x	x	x	x	x	x
M	35	x 1.5	x	x	x	x	x	x	x
M	36	x 1.5	x	x	x	x	x	x	x
M	38	x 1.5	x	x	x	x	x	x	x
M	39	x 1.5	x	x	x	x	x	x	x
M	40	x 1.5	x	x	x	x	x	x	x
M	42	x 1.5	x	x	x	x	x	x	x
M	45	x 1.5	x	x	x	x	x	x	x
M	48	x 1.5	x	x	x	x	x	x	x
M	50	x 1.5	x	x	x	x	x	x	x
M	52	x 1.5	x	x	x	x	x	x	x
M	55	x 1.5	x	x	x	x	x	x	x
M	56	x 1.5	x	x	x	x	x	x	x
M	58	x 1.5	x	x	x	x	x	x	x
M	60	x 1.5	x	x	x	x	x	x	x
M	62	x 1.5	x	x	x	x	x	x	x
M	64	x 1.5	x	x	x	x	x	x	x
M	65	x 1.5	x	x	x	x	x	x	x
M	68	x 1.5	x	x	x	x	x	x	x
M	70	x 1.5	x	x	x	x	x	x	x
M	72	x 1.5	—	x	x	x	x	x	x
M	75	x 1.5	—	x	x	x	x	x	x
M	76	x 1.5	—	x	x	x	x	x	x
M	78	x 1.5	—	x	x	x	x	x	x
M	80	x 1.5	—	x	x	x	x	x	x
M	82	x 1.5	—	x	x	x	x	x	x
M	85	x 1.5	—	x	x	x	x	x	x
M	88	x 1.5	—	x	x	x	x	x	x
M	90	x 1.5	—	x	x	x	x	x	x
M	92	x 1.5	—	x	x	x	x	x	x
M	95	x 1.5	—	x	x	x	x	x	x
M	98	x 1.5	—	x	x	x	x	x	x
M	100	x 1.5	—	x	x	x	x	x	x
M	102	x 1.5	—	x	x	x	x	x	x
M	105	x 1.5	—	x	x	x	x	x	x
M	108	x 1.5	—	x	x	x	x	x	x
M	110	x 1.5	—	x	x	x	x	x	x
M	112	x 1.5	—	x	x	x	x	x	x

pitch 1.5 mm

Nominal thread Ø

			Limit thread plug gauge	GO thread plug gauge	NO GO thread plug gauge	GO or NO GO thread ring gauge	Limit thread setting gauge	Limit thread caliper gauge	Limit plug gauge for minor diameter
M	115	x 1.5	—	x	x	x	x	x	x
M	118	x 1.5	—	x	x	x	x	x	x
M	120	x 1.5	—	x	x	x	x	x	x
M	122	x 1.5	—	x	x	x	x	x	x
M	125	x 1.5	—	x	x	x	x	x	x
M	128	x 1.5	—	x	x	x	x	x	x
M	130	x 1.5	—	x	x	x	x	x	x
M	132	x 1.5	—	x	x	x	x	x	x
M	135	x 1.5	—	x	x	x	x	x	x
M	138	x 1.5	—	x	x	x	x	x	x
M	140	x 1.5	—	x	x	x	x	x	x
M	142	x 1.5	—	x	x	x	x	x	x
M	145	x 1.5	—	x	x	x	x	x	x
M	148	x 1.5	—	x	x	x	x	x	x
M	150	x 1.5	—	x	x	x	x	x	x
M	152	x 1.5	—	x	x	x	x	x	x
M	155	x 1.5	—	x	x	x	x	x	x
M	158	x 1.5	—	x	x	x	x	x	x
M	160	x 1.5	—	x	x	x	x	x	x
M	162	x 1.5	—	x	x	x	x	x	x
M	165	x 1.5	—	x	x	x	x	x	x
M	168	x 1.5	—	x	x	x	x	x	x
M	170	x 1.5	—	x	x	x	x	x	x
M	172	x 1.5	—	x	x	x	x	x	x
M	175	x 1.5	—	x	x	x	x	x	x
M	178	x 1.5	—	x	x	x	x	x	x
M	180	x 1.5	—	x	x	x	x	x	x
M	182	x 1.5	—	x	x	x	x	x	x
M	185	x 1.5	—	x	x	x	x	x	x
M	188	x 1.5	—	x	x	x	x	x	x
M	190	x 1.5	—	x	x	x	x	x	x
M	192	x 1.5	—	x	x	x	x	x	x
M	195	x 1.5	—	x	x	x	x	x	x
M	198	x 1.5	—	x	x	x	x	x	x
M	200	x 1.5	—	x	x	x	x	x	x
M	202	x 1.5	—	x	x	x	x	—	x
M	205	x 1.5	—	x	x	x	x	—	x
M	208	x 1.5	—	x	x	x	x	—	x
M	210	x 1.5	—	x	x	x	x	—	x
M	212	x 1.5	—	x	x	x	x	—	x
M	215	x 1.5	—	x	x	x	x	—	x
M	218	x 1.5	—	x	x	x	x	—	x
M	220	x 1.5	—	x	x	x	x	—	x
M	222	x 1.5	—	x	x	x	x	—	x
M	225	x 1.5	—	x	x	x	x	—	x
M	228	x 1.5	—	x	x	x	x	—	x
M	230	x 1.5	—	x	x	x	x	—	x
M	236	x 1.5	—	x	x	x	x	—	x
M	235	x 1.5	—	x	x	x	x	—	x
M	238	x 1.5	—	x	x	x	x	—	x
M	240	x 1.5	—	x	x	x	x	—	x
M	242	x 1.5	—	x	x	x	x	—	x
M	245	x 1.5	—	x	x	x	x	—	x
M	248	x 1.5	—	x	x	x	x	—	x
M	250	x 1.5	—	x	x	x	x	—	x



Thread gauges
for
metric thread,
fine
No. 009

pitch 2 mm

Nominal thread Ø

Nominal thread Ø	Limit thread plug gauge	GO thread plug gauge	NO GO thread plug gauge	GO or NO GO thread ring gauge	Limit thread setting gauge	Limit thread caliper gauge	Limit plug gauge for minor diameter
M 20 x 2	x	x	x	x	x	x	x
M 22 x 2	x	x	x	x	x	x	x
M 24 x 2	x	x	x	x	x	x	x
M 25 x 2	x	x	x	x	x	x	x
M 26 x 2	x	x	x	x	x	x	x
M 27 x 2	x	x	x	x	x	x	x
M 28 x 2	x	x	x	x	x	x	x
M 30 x 2	x	x	x	x	x	x	x
M 32 x 2	x	x	x	x	x	x	x
M 33 x 2	x	x	x	x	x	x	x
M 34 x 2	x	x	x	x	x	x	x
M 35 x 2	x	x	x	x	x	x	x
M 36 x 2	x	x	x	x	x	x	x
M 38 x 2	x	x	x	x	x	x	x
M 39 x 2	x	x	x	x	x	x	x
M 40 x 2	x	x	x	x	x	x	x
M 42 x 2	x	x	x	x	x	x	x
M 45 x 2	x	x	x	x	x	x	x
M 48 x 2	x	x	x	x	x	x	x
M 50 x 2	x	x	x	x	x	x	x
M 52 x 2	x	x	x	x	x	x	x
M 55 x 2	x	x	x	x	x	x	x
M 56 x 2	x	x	x	x	x	x	x
M 58 x 2	x	x	x	x	x	x	x
M 60 x 2	x	x	x	x	x	x	x
M 62 x 2	x	x	x	x	x	x	x
M 64 x 2	x	x	x	x	x	x	x
M 65 x 2	x	x	x	x	x	x	x
M 68 x 2	x	x	x	x	x	x	x
M 70 x 2	x	x	x	x	x	x	x
M 72 x 2	-	x	x	x	x	x	x
M 75 x 2	-	x	x	x	x	x	x
M 76 x 2	-	x	x	x	x	x	x
M 78 x 2	-	x	x	x	x	x	x
M 80 x 2	-	x	x	x	x	x	x
M 82 x 2	-	x	x	x	x	x	x
M 85 x 2	-	x	x	x	x	x	x
M 88 x 2	-	x	x	x	x	x	x
M 90 x 2	-	x	x	x	x	x	x
M 92 x 2	-	x	x	x	x	x	x
M 95 x 2	-	x	x	x	x	x	x
M 98 x 2	-	x	x	x	x	x	x
M 100 x 2	-	x	x	x	x	x	x
M 102 x 2	-	x	x	x	x	x	x
M 105 x 2	-	x	x	x	x	x	x
M 108 x 2	-	x	x	x	x	x	x
M 110 x 2	-	x	x	x	x	x	x
M 112 x 2	-	x	x	x	x	x	x
M 115 x 2	-	x	x	x	x	x	x
M 118 x 2	-	x	x	x	x	x	x
M 120 x 2	-	x	x	x	x	x	x
M 122 x 2	-	x	x	x	x	x	x

pitch 2 mm

Nominal thread Ø

Nominal thread Ø	Limit thread plug gauge	GO thread plug gauge	NO GO thread plug gauge	GO or NO GO thread ring gauge	Limit thread setting gauge	Limit thread caliper gauge	Limit plug gauge for minor diameter
M 125 x 2	-	x	x	x	x	x	x
M 128 x 2	-	x	x	x	x	x	x
M 130 x 2	-	x	x	x	x	x	x
M 132 x 2	-	x	x	x	x	x	x
M 135 x 2	-	x	x	x	x	x	x
M 138 x 2	-	x	x	x	x	x	x
M 140 x 2	-	x	x	x	x	x	x
M 142 x 2	-	x	x	x	x	x	x
M 145 x 2	-	x	x	x	x	x	x
M 148 x 2	-	x	x	x	x	x	x
M 150 x 2	-	x	x	x	x	x	x
M 152 x 2	-	x	x	x	x	x	x
M 155 x 2	-	x	x	x	x	x	x
M 158 x 2	-	x	x	x	x	x	x
M 160 x 2	-	x	x	x	x	x	x
M 162 x 2	-	x	x	x	x	x	x
M 165 x 2	-	x	x	x	x	x	x
M 168 x 2	-	x	x	x	x	x	x
M 170 x 2	-	x	x	x	x	x	x
M 172 x 2	-	x	x	x	x	x	x
M 175 x 2	-	x	x	x	x	x	x
M 178 x 2	-	x	x	x	x	x	x
M 180 x 2	-	x	x	x	x	x	x
M 182 x 2	-	x	x	x	x	x	x
M 185 x 2	-	x	x	x	x	x	x
M 188 x 2	-	x	x	x	x	x	x
M 190 x 2	-	x	x	x	x	x	x
M 192 x 2	-	x	x	x	x	x	x
M 195 x 2	-	x	x	x	x	x	x
M 198 x 2	-	x	x	x	x	x	x
M 200 x 2	-	x	x	x	x	x	x
M 202 x 2	-	x	x	x	x	-	x
M 205 x 2	-	x	x	x	x	-	x
M 208 x 2	-	x	x	x	x	-	x
M 210 x 2	-	x	x	x	x	-	x
M 212 x 2	-	x	x	x	x	-	x
M 215 x 2	-	x	x	x	x	-	x
M 218 x 2	-	x	x	x	x	-	x
M 220 x 2	-	x	x	x	x	-	x
M 222 x 2	-	x	x	x	x	-	x
M 225 x 2	-	x	x	x	x	-	x
M 228 x 2	-	x	x	x	x	-	x
M 230 x 2	-	x	x	x	x	-	x
M 236 x 2	-	x	x	x	x	-	x
M 235 x 2	-	x	x	x	x	-	x
M 238 x 2	-	x	x	x	x	-	x
M 240 x 2	-	x	x	x	x	-	x
M 242 x 2	-	x	x	x	x	-	x
M 245 x 2	-	x	x	x	x	-	x
M 248 x 2	-	x	x	x	x	-	x
M 250 x 2	-	x	x	x	x	-	x



Thread gauges
for
metric thread,
fine
No. 00A

pitch 3 mm

Nominal thread Ø

Nominal thread Ø	Limit thread plug gauge	GO thread plug gauge	NO GO thread plug gauge	GO or NO GO thread ring gauge	Limit thread setting gauge	Limit thread caliper gauge	Limit plug gauge for minor diameter
M 30 x 3	x	x	x	x	x	x	x
M 33 x 3	x	x	x	x	x	x	x
M 36 x 3	x	x	x	x	x	x	x
M 40 x 3	x	x	x	x	x	x	x
M 42 x 3	x	x	x	x	x	x	x
M 45 x 3	x	x	x	x	x	x	x
M 48 x 3	x	x	x	x	x	x	x
M 50 x 3	x	x	x	x	x	x	x
M 52 x 3	x	x	x	x	x	x	x
M 55 x 3	x	x	x	x	x	x	x
M 56 x 3	x	x	x	x	x	x	x
M 58 x 3	x	x	x	x	x	x	x
M 60 x 3	x	x	x	x	x	x	x
M 62 x 3	x	x	x	x	x	x	x
M 64 x 3	x	x	x	x	x	x	x
M 65 x 3	x	x	x	x	x	x	x
M 68 x 3	x	x	x	x	x	x	x
M 70 x 3	x	x	x	x	x	x	x
M 72 x 3	—	x	x	x	x	x	x
M 75 x 3	—	x	x	x	x	x	x
M 76 x 3	—	x	x	x	x	x	x
M 80 x 3	—	x	x	x	x	x	x
M 85 x 3	—	x	x	x	x	x	x
M 90 x 3	—	x	x	x	x	x	x
M 95 x 3	—	x	x	x	x	x	x
M 100 x 3	—	x	x	x	x	x	x
M 105 x 3	—	x	x	x	x	x	x
M 110 x 3	—	x	x	x	x	x	x
M 115 x 3	—	x	x	x	x	x	x
M 120 x 3	—	x	x	x	x	x	x
M 125 x 3	—	x	x	x	x	x	x
M 130 x 3	—	x	x	x	x	x	x
M 135 x 3	—	x	x	x	x	x	x
M 140 x 3	—	x	x	x	x	x	x
M 145 x 3	—	x	x	x	x	x	x
M 150 x 3	—	x	x	x	x	x	x
M 155 x 3	—	x	x	x	x	x	x
M 160 x 3	—	x	x	x	x	x	x
M 165 x 3	—	x	x	x	x	x	x
M 170 x 3	—	x	x	x	x	x	x
M 175 x 3	—	x	x	x	x	x	x
M 180 x 3	—	x	x	x	x	x	x
M 185 x 3	—	x	x	x	x	x	x
M 190 x 3	—	x	x	x	x	x	x
M 195 x 3	—	x	x	x	x	x	x
M 200 x 3	—	x	x	x	x	x	x
M 205 x 3	—	x	x	x	x	—	x
M 210 x 3	—	x	x	x	x	—	x
M 215 x 3	—	x	x	x	x	—	x
M 220 x 3	—	x	x	x	x	—	x
M 225 x 3	—	x	x	x	x	—	x
M 230 x 3	—	x	x	x	x	—	x
M 235 x 3	—	x	x	x	x	—	x
M 240 x 3	—	x	x	x	x	—	x
M 245 x 3	—	x	x	x	x	—	x
M 250 x 3	—	x	x	x	x	—	x

Thread gauges
for
metric thread,
fine
No. 00A

pitch 4 mm

Nominal thread Ø

Nominal thread Ø	Limit thread plug gauge	GO thread plug gauge	NO GO thread plug gauge	GO or NO GO thread ring gauge	Limit thread setting gauge	Limit thread caliper gauge	Limit plug gauge for minor diameter
M 40 x 4	x	x	x	x	x	x	x
M 42 x 4	x	x	x	x	x	x	x
M 45 x 4	x	x	x	x	x	x	x
M 48 x 4	x	x	x	x	x	x	x
M 52 x 4	x	x	x	x	x	x	x
M 55 x 4	x	x	x	x	x	x	x
M 56 x 4	x	x	x	x	x	x	x
M 58 x 4	x	x	x	x	x	x	x
M 60 x 4	x	x	x	x	x	x	x
M 62 x 4	x	x	x	x	x	x	x
M 64 x 4	x	x	x	x	x	x	x
M 65 x 4	x	x	x	x	x	x	x
M 68 x 4	x	x	x	x	x	x	x
M 70 x 4	x	x	x	x	x	x	x
M 72 x 4	—	x	x	x	x	x	x
M 75 x 4	—	x	x	x	x	x	x
M 76 x 4	—	x	x	x	x	x	x
M 80 x 4	—	x	x	x	x	x	x
M 85 x 4	—	x	x	x	x	x	x
M 90 x 4	—	x	x	x	x	x	x
M 95 x 4	—	x	x	x	x	x	x
M 100 x 4	—	x	x	x	x	x	x
M 105 x 4	—	x	x	x	x	x	x
M 110 x 4	—	x	x	x	x	x	x
M 115 x 4	—	x	x	x	x	x	x
M 120 x 4	—	x	x	x	x	x	x
M 125 x 4	—	x	x	x	x	x	x
M 130 x 4	—	x	x	x	x	x	x
M 135 x 4	—	x	x	x	x	x	x
M 140 x 4	—	x	x	x	x	x	x
M 145 x 4	—	x	x	x	x	x	x
M 150 x 4	—	x	x	x	x	x	x
M 155 x 4	—	x	x	x	x	x	x
M 160 x 4	—	x	x	x	x	x	x
M 165 x 4	—	x	x	x	x	x	x
M 170 x 4	—	x	x	x	x	x	x
M 175 x 4	—	x	x	x	x	x	x
M 180 x 4	—	x	x	x	x	x	x
M 185 x 4	—	x	x	x	x	x	x
M 190 x 4	—	x	x	x	x	x	x
M 195 x 4	—	x	x	x	x	x	x
M 200 x 4	—	x	x	x	x	x	x
M 205 x 4	—	x	x	x	x	—	x
M 210 x 4	—	x	x	x	x	—	x
M 215 x 4	—	x	x	x	x	—	x
M 220 x 4	—	x	x	x	x	—	x
M 225 x 4	—	x	x	x	x	—	x
M 230 x 4	—	x	x	x	x	—	x
M 235 x 4	—	x	x	x	x	—	x
M 240 x 4	—	x	x	x	x	—	x
M 245 x 4	—	x	x	x	x	—	x
M 250 x 4	—	x	x	x	x	—	x



Thread gauges
for
metric thread,
fine
No. 00C

pitch 6 mm

Nominal thread Ø

			Limit thread plug gauge	GO thread plug gauge	NO GO thread plug gauge	GO or NO GO thread ring gauge	Limit thread setting gauge	Limit thread caliper gauge	Limit plug gauge for minor diameter
M 70	x 6	x	x	x	x	x	x	x	x
M 72	x 6	—	x	x	x	x	x	x	x
M 76	x 6	—	x	x	x	x	x	x	x
M 80	x 6	—	x	x	x	x	x	x	x
M 85	x 6	—	x	x	x	x	x	x	x
M 90	x 6	—	x	x	x	x	x	x	x
M 95	x 6	—	x	x	x	x	x	x	x
M 100	x 6	—	x	x	x	x	x	x	x
M 105	x 6	—	x	x	x	x	x	x	x
M 110	x 6	—	x	x	x	x	x	x	x
M 115	x 6	—	x	x	x	x	x	x	x
M 120	x 6	—	x	x	x	x	x	x	x
M 125	x 6	—	x	x	x	x	x	x	x
M 130	x 6	—	x	x	x	x	x	x	x
M 135	x 6	—	x	x	x	x	x	x	x
M 140	x 6	—	x	x	x	x	x	x	x
M 145	x 6	—	x	x	x	x	x	x	x
M 150	x 6	—	x	x	x	x	x	x	x
M 155	x 6	—	x	x	x	x	x	x	x
M 160	x 6	—	x	x	x	x	x	x	x
M 165	x 6	—	x	x	x	x	x	x	x
M 170	x 6	—	x	x	x	x	x	x	x
M 175	x 6	—	x	x	x	x	x	x	x
M 180	x 6	—	x	x	x	x	x	x	x
M 185	x 6	—	x	x	x	x	x	x	x
M 190	x 6	—	x	x	x	x	x	x	x
M 195	x 6	—	x	x	x	x	x	x	x
M 200	x 6	—	x	x	x	x	x	x	x
M 205	x 6	—	x	x	x	—	—	x	x
M 210	x 6	—	x	x	x	—	—	x	x
M 215	x 6	—	x	x	x	—	—	x	x
M 220	x 6	—	x	x	x	—	—	x	x
M 225	x 6	—	x	x	x	—	—	x	x
M 230	x 6	—	x	x	x	—	—	x	x
M 235	x 6	—	x	x	x	—	—	x	x
M 240	x 6	—	x	x	x	—	—	x	x
M 245	x 6	—	x	x	x	—	—	x	x
M 250	x 6	—	x	x	x	—	—	x	x



NO GO thread ring gauge
with dirt groove



Thread setting ring according
to DIN 2241



Limit thread plug gauge
with piloting collar on the NO GO part
and dirt groove on the GO part

Thread gauges

No.
010

for trapezoidal thread to DIN 103 (ISO)

The manufactured range includes:

- ◆ Limit thread plug gauges
- ◆ GO thread plug gauges
- ◆ NO GO thread plug gauges
- ◆ GO thread ring gauges
- ◆ NO GO thread ring gauges
- ◆ Limit thread setting gauges
- ◆ Limit thread caliper gauges up to pitch 6

Recommended tolerance zones for effective diameters

Tolerance class	Screw-in group N	
	internal thread	external thread
medium	7 H	7 e
coarse	8 H	8 c

Sizes in the standard range	
Tr 8 x 1.5	Tr 32 x 6
Tr 9 x 2	Tr 34 x 6
Tr 10 x 2	Tr 36 x 6
Tr 11 x 2	Tr 38 x 7
Tr 12 x 3	Tr 40 x 7
Tr 14 x 3	Tr 42 x 7
Tr 16 x 4	Tr 44 x 7
Tr 18 x 4	Tr 46 x 8
Tr 20 x 4	Tr 48 x 8
Tr 22 x 5	Tr 50 x 8
Tr 24 x 5	Tr 52 x 8
Tr 26 x 5	Tr 55 x 9
Tr 28 x 5	Tr 60 x 9
Tr 30 x 6	



No.
040

for cylindrical pipe thread for not-self-sealing thread connections to DIN-ISO 228 Part 1

The manufactured range includes:

- ◆ Limit thread plug gauges
- ◆ GO thread plug gauges
- ◆ NO GO thread plug gauges
- ◆ GO thread ring gauges
- ◆ NO GO thread ring gauges
- ◆ Limit thread setting gauges
- ◆ Limit thread caliper gauges

Descriptions e.g. for nominal size 1 1/2"

internal thread	external thread	
	class A	class B
G 1 1/2	G 1 1/2 A	G 1 1/2 B

Sizes in the standard range	
G 1/8"	G 2"
G 1/4"	G 2 1/4"
G 3/8"	G 2 1/2"
G 1/2"	G 2 3/4"
G 5/8"	G 3"
G 3/4"	G 3 1/2"
G 7/8"	G 4"
G 1"	G 4 1/2"
G 1 1/8"	G 5"
G 1 1/4"	G 5 1/2"
G 1 1/2"	G 6"
G 1 3/4"	G 6 1/2"

NO GO thread ring gauge for trapezoidal thread

No.
050

for British standard Withworth thread BSW to BS 84

The manufactured range includes:

- ◆ The manufactured range includes:
- ◆ Limit thread plug gauges
- ◆ GO thread plug gauges
- ◆ NO GO thread plug gauges
- ◆ GO thread ring gauges
- ◆ NO GO thread ring gauges
- ◆ Limit thread setting gauges
- ◆ Limit thread caliper gauges

As also for metric thread gauges for the manufacture a sophisticated special steel is used. The gauges are featured by high wear resistance, careful ageing and precise surface.

Sizes in the standard range	
1/8"	2"
3/16"	2 1/4"
1/4"	2 1/2"
5/16"	2 3/4"
3/8"	3"
7/16"	3 1/4"
1/2"	3 1/2"
9/16"	3 3/4"
5/8"	4"
11/16"	4 1/4"
3/4"	4 1/2"
7/8"	4 3/4"
1	5"
1 1/8"	5 1/4"
1 1/4"	5 1/2"
1 3/8"	5 3/4"
1 1/2"	6"
1 3/4"	

Limit thread plug gauge for trapezoidal thread



Thread gauges
No. 051

for British Standard
BSF to BS 84

The manufactured range includes:

- ◆ Limit thread plug gauges
- ◆ GO thread plug gauges
- ◆ NO GO thread plug gauges
- ◆ GO thread ring gauges
- ◆ NO GO thread ring gauges
- ◆ Limit thread setting gauges
- ◆ Limit thread caliper gauges

Sizes in the standard range	
3/16 x 32	1 1/4 x 9
7/32 x 28	1 3/8 x 8
1/4 x 26	1 1/2 x 8
9/32 x 26	1 5/8 x 8
5/16 x 22	1 3/4 x 7
3/8 x 20	2 x 7
7/16 x 18	2 1/4 x 6
1/2 x 16	2 1/2 x 6
9/16 x 16	2 3/4 x 6
5/8 x 14	3 x 5
11/16 x 14	3 1/4 x 5
3/4 x 12	3 1/2 x 4 1/2
7/8 x 11	3 3/4 x 4 1/2
1 x 10	4 x 4 1/2
1 1/8 x 9	4 1/4 x 4

No. 030

for American unified
inch screw thread,
coarse
UNC to ANSI B 1.1
- 1982

The manufactured range includes:

- ◆ Limit thread plug gauges
- ◆ GO thread plug gauges
- ◆ NO GO thread plug gauges
- ◆ GO thread ring gauges
- ◆ NO GO thread ring gauges
- ◆ Limit thread setting gauges
- ◆ Limit thread caliper gauges

Sizes in the standard range	
No. 1 - 64	7/8 - 9
No. 2 - 56	1 - 8
No. 3 - 48	1 1/8 - 7
No. 4 - 40	1 1/4 - 7
No. 5 - 40	1 3/8 - 6
No. 6 - 32	1 1/2 - 6
No. 8 - 32	1 3/4 - 5
No. 10 - 24	2 - 4 1/2
No. 12 - 24	2 1/4 - 4 1/2
1/4 - 20	2 1/2 - 4
5/16 - 18	2 3/4 - 4
7/16 - 14	3 - 4
1/2 - 13	3 1/4 - 4
3/16 - 12	3 1/2 - 4
5/8 - 11	3 3/4 - 4
3/4 - 10	4 - 4

No. 031

for American unified
inch screw thread,
fine
UNF to ANSI B 1.1
- 1982

The same volume as for UNC thread gauges in the manufactured range.

Sizes in the standard range	
No. 0 - 80	7/16 - 20
No. 1 - 72	1/2 - 20
No. 2 - 64	9/16 - 18
No. 3 - 56	5/8 - 18
No. 4 - 48	3/4 - 16
No. 5 - 44	7/8 - 14
No. 6 - 40	1 - 12
No. 8 - 36	1 1/8 - 12
No. 10 - 32	1 1/4 - 12
No. 12 - 28	1 3/8 - 12
1/4 - 28	1 1/2 - 12
5/16 - 24	3 3/4 - 4
3/8 - 24	4 - 4



Thread gauges

No.
032

for American unified
inch screw thread,
extrafine
UNEF to ANSI B 1.1
- 1982

The same volume as for UNF thread
gauges in the manufactured range.

Sizes in the standard range

No.12 - 32	1 - 20
1/4 - 32	1 1/16 - 20
5/16 - 32	1 1/16 - 18
3/8 - 32	1 1/8 - 18
7/16 - 28	1 3/16 - 18
1/2 - 28	1 1/4 - 18
3/16 - 24	1 5/16 - 18
5/8 - 24	1 3/8 - 18
1 1/16 - 24	1 7/16 - 18
3/4 - 20	1 1/2 - 18
13/16 - 20	1 5/16 - 18
7/8 - 20	1 5/8 - 18
15/16 - 20	1 11/16 - 18

No.
060

for steel conduit
thread to DIN 40430

The manufactured range includes:

- ◆ Limit thread plug gauges with plain NO GO plug gauge
- ◆ GO thread ring gauges
- ◆ NO GO thread ring gauges, plain

Sizes in the standard range

Pg 7	Pg 21
Pg 9	Pg 29
Pg 11	Pg 36
Pg 13.5	Pg 42
Pg 16	Pg 48

No.
067

for Edison thread
to DIN 40400

The manufactured range includes:

- ◆ Limit thread plug gauges with plain
- ◆ NO GO plug gauge
- ◆ GO thread ring gauges
- ◆ NO GO thread ring gauges, plain

Sizes in the standard range

E 14	E 27
E 16	E 33
E 18	



Thread gauges

**No.
070**

for Withworth pipe thread to DIN 2999 (August 1973)

The manufactured range includes:

- ◆ Limit thread plug gauge (tapered)
- ◆ Limit thread ring gauge (cylindrical)

Sizes in the standard range	
1/16"	1 1/2"
1/8"	2"
1/4"	2 1/2"
3/8"	3"
1/2"	4"
3/4"	5"
1"	6"
1 1/4"	

**No.
071**

for American taper pipe thread NPT to ANSI /ASME B 1.20.1

The manufactured range includes:

- ◆ Limit thread plug gauges
- ◆ Limit thread ring gauges

Sizes in the standard range	
1/16-27 - NPT	2 - 11 1/2 -NPT
1/8 -27 - NPT	2 1/2 - 8 - NPT
1/4 -18 - NPT	3 - 8 - NPT
3/8 -18 - NPT	3 1/2 - 8 - NPT
1/2 -14 - NPT	4 - 8 - NPT
3/4 -14 - NPT	5 - 8 - NPT
1 - 11 1/2 -NPT	6 - 8 - NPT
1 1/4 - 11 1/2 -NPT	8 - 8 - NPT
1 1/2 - 11 1/2 -NPT	

**No.
072**

for American tapes pipe thread, fine NPTF to ANSI /ASME B 1.20.5

The manufactured range includes:

- ◆ Limit thread plug gauges
- ◆ Limit thread ring gauges with GO and NO GO step (limit gauge)

3 steps- 4 steps- and 6 steps- gauges on request

Sizes in the standard range	
1/16-27 - NPTF	1 - 11 1/2 -NPTF
1/8 -27 - NPTF	1 1/4 -11 1/2 -NPTF
1/4 -18 - NPTF	1 1/2 -11 1/2 -NPTF
3/8 -18 - NPTF	2 - 11 1/2 -NPTF
1/2 -14 - NPTF	2 1/2 - 8 - NPTF
3/4 -14 - NPTF	3 - 8 - NPTF

Other thread sizes on request

Thread gauges according to DIN 2999

