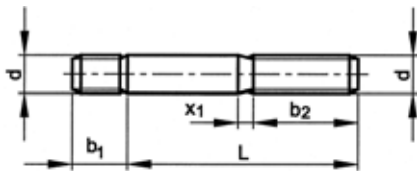


Stud metal end $\approx 1,25d$



DIN 939
NEN 2332
NF E25-135



Technical data

d	P	$b_1 \approx 1,25d$	$b_2: L \leq 125\text{mm}$	$b_2: 125\text{mm} < L \leq 200\text{mm}$	x_1	$b_2 = L - (x_1 + 3) \text{ t/m } L \leq$
M6	1	7,5	18	24	2,5	20
M8	1,25	10	22	28	3,2	25
M10	1,5	12	26	32	3,8	30
M12	1,75	15	30	36	4,3	35
M14	2	18	34	40	5	40
M16	2	20	38	44	5	45
M18	2,5	22	42	48	6,3	50
M20	2,5	25	46	52	6,3	55
M22	2,5	28	50	56	6,3	60
M24	3	30	54	60	7,5	65
M27	3	35	60	66	7,5	70

- ATTENTION: when ordering studs acc. to DIN the diameter d x the effective length L has to be stated e.g. stud M10 x 65 - DIN 939, where $L = 65$ mm is the working length and $b_1 = 12$ mm the metal end. The total length is $65 + 12 = 77$ mm. The threadlength on the outside $b_2 = 26$ mm.
- The screw-in threaded end has been made with tolerance Sk6, acc. to DIN 13-51, meaning "heavy fit", and prevents loosening of studs during disassembly.
- Studs acc. to DIN 939 (5.6/5.8/8.8) with a metal end $\approx 1,25d$ have many applications, among others in cast-iron.

Article groups

Thread	Material	Class	Surface treatment	Packaging	Code	Page
M	St	5.6/5.8		Standard	21500	4-25
M	St	5.6/5.8	Zipl	Standard	21510	4-26
M	St	5.6/5.8	Zipl yell.p.	Standard	21515	4-26
M	St	8.8		Standard	21520	4-26
M	St.St. A2			Standard	51270	4-27
M	St.St. A4			Standard	55270	4-27

21500 Stud metal end $\approx 1,25d$

G07A

Thread Metric thread
Material Steel
Class 5.6/5.8
Packaging Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M6X20	200	21500.060.020	M10X55	100	21500.100.055	M16X50	50	21500.160.050
M6X25	200	21500.060.025	M10X60	100	21500.100.060	M16X55	50	21500.160.055
M6X30	200	21500.060.030	M10X65	100	21500.100.065	M16X60	50	21500.160.060
M6X35	200	21500.060.035	M10X70	100	21500.100.070	M16X65	25	21500.160.065
M6X40	200	21500.060.040				M16X70	25	21500.160.070
M6X45	200	21500.060.045	M12X25	100	21500.120.025	M16X75	25	21500.160.075
M6X50	200	21500.060.050	M12X30	100	21500.120.030	M16X80	25	21500.160.080
M6X55	200	21500.060.055	M12X35	100	21500.120.035	M16X90	25	21500.160.090
			M12X40	100	21500.120.040	M16X100	25	21500.160.100
			M12X45	100	21500.120.045			
M8X20	100	21500.080.020	M12X50	50	21500.120.050	M20X40	25	21500.200.040
M8X25	100	21500.080.025	M12X55	50	21500.120.055	M20X45	25	21500.200.045
M8X30	100	21500.080.030	M12X60	50	21500.120.060	M20X50	25	21500.200.050
M8X35	100	21500.080.035	M12X65	50	21500.120.065	M20X55	25	21500.200.055
M8X40	100	21500.080.040	M12X70	50	21500.120.070	M20X60	25	21500.200.060
M8X45	100	21500.080.045	M12X75	50	21500.120.075	M20X65	25	21500.200.065
M8X50	100	21500.080.050	M12X80	50	21500.120.080	M20X70	25	21500.200.070
M8X60	100	21500.080.060	M12X90	50	21500.120.090	M20X75	25	21500.200.075
M8X65	100	21500.080.065	M12X100	50	21500.120.100	M20X80	25	21500.200.080
M8X70	100	21500.080.070				M20X90	10	21500.200.090
			M14X40	50	21500.140.040	M20X100	10	21500.200.100
M10X20	100	21500.100.020	M14X50	50	21500.140.050	M20X110	10	21500.200.110
M10X25	100	21500.100.025	M14X60	50	21500.140.060	M20X120	10	21500.200.120
M10X30	100	21500.100.030				M20X140	10	21500.200.140
M10X35	100	21500.100.035						
M10X40	100	21500.100.040	M16X35	50	21500.160.035			
M10X45	100	21500.100.045	M16X40	50	21500.160.040	M22X50	10	21500.220.050
M10X50	100	21500.100.050	M16X45	50	21500.160.045	M22X60	10	21500.220.060

21500 Stud metal end \approx 1,25d ←

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M22X70	10	21500.220.070	M22X140	10	21500.220.140	M24X90	10	21500.240.090
M22X80	10	21500.220.080				M24X100	10	21500.240.100
M22X90	10	21500.220.090	M24X50	10	21500.240.050	M24X110	10	21500.240.110
M22X100	10	21500.220.100	M24X60	10	21500.240.060	M24X120	10	21500.240.120
M22X110	10	21500.220.110	M24X70	10	21500.240.070	M24X140	10	21500.240.140
M22X120	10	21500.220.120	M24X80	10	21500.240.080			

21510 Stud metal end \approx 1,25d G07A

Thread	Metric thread
Material	Steel
Class	5.6/5.8
Surface treatment	Zinc plated
Packaging	Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M6X20	200	21510.060.020	M8X50	100	21510.080.050	M12X35	100	21510.120.035
M6X25	200	21510.060.025	M8X60	100	21510.080.060	M12X40	100	21510.120.040
M6X30	200	21510.060.030				M12X50	50	21510.120.050
M6X35	200	21510.060.035	M10X20	100	21510.100.020	M12X60	50	21510.120.060
M6X40	200	21510.060.040	M10X25	100	21510.100.025			
M6X45	200	21510.060.045	M10X30	100	21510.100.030	M16X35	50	21510.160.035
M6X50	200	21510.060.050	M10X35	100	21510.100.035	M16X40	50	21510.160.040
			M10X40	100	21510.100.040	M16X45	50	21510.160.045
M8X20	100	21510.080.020	M10X50	100	21510.100.050	M16X50	50	21510.160.050
M8X25	100	21510.080.025	M10X60	100	21510.100.060	M16X55	50	21510.160.055
M8X30	100	21510.080.030				M16X60	50	21510.160.060
M8X35	100	21510.080.035	M12X25	100	21510.120.025			
M8X40	100	21510.080.040	M12X30	100	21510.120.030			

21515 Stud metal end \approx 1,25d G07A

Thread	Metric thread
Material	Steel
Class	5.6/5.8
Surface treatment	Zinc plated yellow passivated
Packaging	Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M6X20	200	21515.060.020	M8X50	100	21515.080.050	M12X35	100	21515.120.035
M6X25	200	21515.060.025	M8X60	100	21515.080.060	M12X40	100	21515.120.040
M6X30	200	21515.060.030				M12X50	50	21515.120.050
M6X35	200	21515.060.035	M10X20	100	21515.100.020	M12X60	50	21515.120.060
M6X40	200	21515.060.040	M10X25	100	21515.100.025			
M6X45	200	21515.060.045	M10X30	100	21515.100.030	M16X35	50	21515.160.035
M6X50	200	21515.060.050	M10X35	100	21515.100.035	M16X40	50	21515.160.040
			M10X40	100	21515.100.040	M16X45	50	21515.160.045
M8X20	100	21515.080.020	M10X50	100	21515.100.050	M16X50	50	21515.160.050
M8X25	100	21515.080.025	M10X60	100	21515.100.060	M16X55	50	21515.160.055
M8X30	100	21515.080.030				M16X60	50	21515.160.060
M8X35	100	21515.080.035	M12X25	100	21515.120.025			
M8X40	100	21515.080.040	M12X30	100	21515.120.030			

21520 Stud metal end \approx 1,25d G07A

Thread	Metric thread
Material	Steel
Class	8.8
Packaging	Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M6X20	200	21520.060.020	M10X20	100	21520.100.020	M12X55	50	21520.120.055
M6X25	200	21520.060.025	M10X25	100	21520.100.025	M12X60	50	21520.120.060
M6X30	200	21520.060.030	M10X30	100	21520.100.030	M12X65	50	21520.120.065
M6X35	200	21520.060.035	M10X35	100	21520.100.035	M12X70	50	21520.120.070
M6X40	200	21520.060.040	M10X40	100	21520.100.040	M12X75	50	21520.120.075
M6X45	200	21520.060.045	M10X45	100	21520.100.045	M12X80	50	21520.120.080
M6X50	200	21520.060.050	M10X50	100	21520.100.050	M12X90	50	21520.120.090
M6X55	200	21520.060.055	M10X55	100	21520.100.055	M12X100	50	21520.120.100
			M10X60	100	21520.100.060			
M8X20	100	21520.080.020	M10X65	100	21520.100.065	M14X30	50	21520.140.030
M8X25	100	21520.080.025	M10X70	100	21520.100.070	M14X35	50	21520.140.035
M8X30	100	21520.080.030				M14X40	50	21520.140.040
M8X35	100	21520.080.035	M12X25	100	21520.120.025	M14X50	50	21520.140.050
M8X40	100	21520.080.040	M12X30	100	21520.120.030	M14X60	50	21520.140.060
M8X45	100	21520.080.045	M12X35	100	21520.120.035			
M8X50	100	21520.080.050	M12X40	100	21520.120.040	M16X35	50	21520.160.035
M8X60	100	21520.080.060	M12X45	100	21520.120.045	M16X40	50	21520.160.040
M8X65	100	21520.080.065	M12X50	50	21520.120.050	M16X45	50	21520.160.045
M8X70	100	21520.080.070				M16X50	50	21520.160.050

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21520 Stud metal end ≈ 1,25d ←

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M16X55	50	21520.160.055	M20X60	25	21520.200.060	M22X80	10	21520.220.080
M16X60	50	21520.160.060	M20X65	25	21520.200.065			
M16X65	25	21520.160.065	M20X70	25	21520.200.070	M24X50	10	21520.240.050
M16X70	25	21520.160.070	M20X75	25	21520.200.075	M24X60	10	21520.240.060
M16X75	25	21520.160.075	M20X80	25	21520.200.080	M24X70	10	21520.240.070
M16X80	25	21520.160.080	M20X90	10	21520.200.090	M24X75	10	21520.240.075
M16X90	25	21520.160.090	M20X100	10	21520.200.100	M24X80	10	21520.240.080
M16X100	25	21520.160.100	M20X110	10	21520.200.110	M24X90	10	21520.240.090
			M20X120	10	21520.200.120	M24X100	10	21520.240.100
M20X40	25	21520.200.040	M20X140	10	21520.200.140	M24X110	10	21520.240.110
M20X45	25	21520.200.045				M24X120	10	21520.240.120
M20X50	25	21520.200.050	M22X60	10	21520.220.060			
M20X55	25	21520.200.055	M22X70	10	21520.220.070			

51270 Stud metal end ≈ 1,25d R09A

Thread Metric thread
Material Stainless steel A2
Packaging Standard




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d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M6X16 *	200	51270.060.016	M10X40	25	51270.100.040	M16X30	10	51270.160.030
M6X20	100	51270.060.020	M10X45	25	51270.100.045	M16X35	10	51270.160.035
M6X25	100	51270.060.025	M10X50	25	51270.100.050	M16X40	10	51270.160.040
M6X30	100	51270.060.030	M10X55	25	51270.100.055	M16X45	10	51270.160.045
M6X35	100	51270.060.035	M10X60	25	51270.100.060	M16X50	10	51270.160.050
M6X40	100	51270.060.040	M10X65	25	51270.100.065	M16X55	10	51270.160.055
M6X45	100	51270.060.045	M10X70	25	51270.100.070	M16X60	10	51270.160.060
M6X50	100	51270.060.050	M10X75	25	51270.100.075	M16X65	10	51270.160.065
M6X55 *	200	51270.060.055	M10X80	25	51270.100.080	M16X70	10	51270.160.070
M6X60	100	51270.060.060	M10X90	10	51270.100.090	M16X75	10	51270.160.075
M6X70	100	51270.060.070	M10X100	10	51270.100.100	M16X80	10	51270.160.080
M6X80	100	51270.060.080	M10X120 *	100	51270.100.120	M16X90	10	51270.160.090
M6X90	100	51270.060.090				M16X100	10	51270.160.100
M6X100	100	51270.060.100	M12X20	10	51270.120.020	M16X110 *	50	51270.160.110
			M12X25	10	51270.120.025			
M8X16 *	200	51270.080.016	M12X30	10	51270.120.030	M20X40	5	51270.200.040
M8X20	50	51270.080.020	M12X35	10	51270.120.035	M20X45	5	51270.200.045
M8X25	50	51270.080.025	M12X40	10	51270.120.040	M20X50	5	51270.200.050
M8X30	50	51270.080.030	M12X45	10	51270.120.045	M20X55	5	51270.200.055
M8X35	50	51270.080.035	M12X50	10	51270.120.050	M20X60	5	51270.200.060
M8X40	50	51270.080.040	M12X55	10	51270.120.055	M20X65	5	51270.200.065
M8X45	50	51270.080.045	M12X60	10	51270.120.060	M20X70	5	51270.200.070
M8X50	50	51270.080.050	M12X65	10	51270.120.065	M20X75	5	51270.200.075
M8X55 *	200	51270.080.055	M12X70	10	51270.120.070	M20X80	5	51270.200.080
M8X60	50	51270.080.060	M12X75	10	51270.120.075	M20X90	5	51270.200.090
M8X70	50	51270.080.070	M12X80	10	51270.120.080	M20X100	5	51270.200.100
M8X80	50	51270.080.080	M12X90	10	51270.120.090	M20X120	5	51270.200.120
M8X90	25	51270.080.090	M12X100	10	51270.120.100			
M8X100	25	51270.080.100	M12X110 *	100	51270.120.110	M24X65 *	50	51270.240.065
			M12X120 *	100	51270.120.120	M24X70 *	50	51270.240.070
M10X20	25	51270.100.020						
M10X22 *	100	51270.100.022	M14X40 *	50	51270.140.040	M27X75 *	25	51270.270.075
M10X25	25	51270.100.025	M14X70 *	50	51270.140.070			
M10X30	25	51270.100.030						
M10X35	25	51270.100.035	M16X25 *	50	51270.160.025			

55270 Stud metal end ≈ 1,25d R49A

Thread Metric thread
Material Stainless steel A4
Packaging Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M6X16 *	200	55270.060.016	M8X25	50	55270.080.025	M10X35	25	55270.100.035
M6X20	100	55270.060.020	M8X30	50	55270.080.030	M10X40	25	55270.100.040
M6X25	100	55270.060.025	M8X35	50	55270.080.035	M10X45	25	55270.100.045
M6X30	100	55270.060.030	M8X40	50	55270.080.040	M10X50	25	55270.100.050
M6X35	100	55270.060.035	M8X45	50	55270.080.045	M10X55	25	55270.100.055
M6X40	100	55270.060.040	M8X50	50	55270.080.050	M10X60	25	55270.100.060
M6X45	100	55270.060.045	M8X55 *	200	55270.080.055	M10X65	25	55270.100.065
M6X50	100	55270.060.050	M8X60	50	55270.080.060	M10X70	25	55270.100.070
M6X60	100	55270.060.060	M8X65 *	200	55270.080.065	M10X75 *	100	55270.100.075
M6X65	200	55270.060.065	M8X70	50	55270.080.070	M10X80	25	55270.100.080
M6X70	100	55270.060.070	M8X80	50	55270.080.080	M10X90	10	55270.100.090
M6X80	100	55270.060.080	M8X100	25	55270.080.100	M10X100	10	55270.100.100
M6X100	100	55270.060.100						
			M10X20	25	55270.100.020	M12X20	10	55270.120.020
M8X16 *	200	55270.080.016	M10X25	25	55270.100.025	M12X25	10	55270.120.025
M8X20	50	55270.080.020	M10X30	25	55270.100.030	M12X30	10	55270.120.030

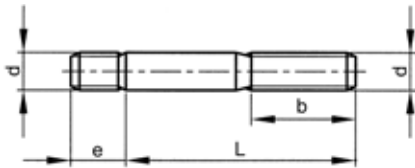
55270 Stud metal end ≈ 1,25d

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M12X35	10	55270.120.035	M16X45	10	55270.160.045	M20X65	5	55270.200.065
M12X40	10	55270.120.040	M16X50	10	55270.160.050	M20X70	5	55270.200.070
M12X45	10	55270.120.045	M16X55	10	55270.160.055	M20X75	5	55270.200.075
M12X50	10	55270.120.050	M16X60	10	55270.160.060	M20X80	5	55270.200.080
M12X55	10	55270.120.055	M16X65	10	55270.160.065	M20X85	50	55270.200.085
M12X65	10	55270.120.065	M16X70	10	55270.160.070	M20X90	5	55270.200.090
M12X70	10	55270.120.070	M16X75	10	55270.160.075	M20X100	5	55270.200.100
M12X75	10	55270.120.075	M16X80	10	55270.160.080	M20X110 *	50	55270.200.110
M12X90	10	55270.120.090	M16X100	10	55270.160.100	M20X120	5	55270.200.120
M12X100	10	55270.120.100	M16X120 *	50	55270.160.120			
M12X110 *	100	55270.120.110				M24X60	5	55270.240.060
M12X120 *	100	55270.120.120	M18X45 *	50	55270.180.045	M24X70	5	55270.240.070
			M20X40	5	55270.200.040	M24X80	5	55270.240.080
M14X35 *	50	55270.140.035	M20X45	5	55270.200.045	M24X90	5	55270.240.090
M16X30	10	55270.160.030	M20X50	5	55270.200.050	M24X100	5	55270.240.100
M16X35	10	55270.160.035	M20X55	5	55270.200.055			
M16X40	10	55270.160.040	M20X60	5	55270.200.060			

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Stud metal end $\approx 1,25d$ BSW

DIN ≈ 939 (1955)
NEN ≈ 2346 (1962)



Technical data

d	Threads per inch	b	e $\approx 1,25d$
5/16	18	18	10
3/8	16	20	12
1/2	12	25/30	16
5/8	11	28	20
3/4	10	32	25
1.IN.	8	40/55	35

- Whitworth thread (BSW) is not internationally recommended.
- It is advised to use metric (M).
- ATTENTION: when ordering studs according to DIN the diameter d x the effective length L has to be stated e.g. stud 5/16 x 25, where L = 25 mm is the working length and e 10 mm the metal end.
- The total length is 25 + 10 = 35 mm.
- The threadlength on the outside b = 18 mm.
- Studs acc. to \approx DIN 939 (1955) with a metal end e $\approx 1,25 d$ have many applications, among others in cast-iron.
- The screw-in threaded end has been made with tolerance Sk6, acc. to DIN 13 and 14, Beiblatt 14 (1944), meaning "heavy fit", and prevents loosening of studs during disassembly.

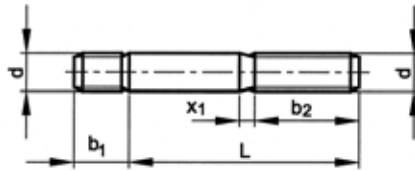
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21540	Stud metal end $\approx 1,25d$ BSW	X08A
Thread	British Standard Whitworth	
Material	Steel	
Class	5.6/5.8	
Packaging	Standard	

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
5/16X25MM	100	21540.079.025	1/2X40MM	50	21540.127.040	3/4X50MM	25	21540.191.050
5/16X30MM	100	21540.079.030	1/2X45MM	50	21540.127.045		25	21540.191.060
5/16X35MM	100	21540.079.035	1/2X50MM	50	21540.127.050		25	21540.191.070
			1/2X60MM	50	21540.127.060		10	21540.191.080
3/8X25MM	100	21540.096.025	1/2X70MM	50	21540.127.070	1INX50MM	10	21540.254.050
3/8X30MM	100	21540.096.030	1/2X80MM	50	21540.127.080		10	21540.254.060
3/8X35MM	100	21540.096.035					10	21540.254.100
3/8X40MM	100	21540.096.040	5/8X45MM	25	21540.158.045			
3/8X50MM	100	21540.096.050	5/8X50MM	25	21540.158.050	1INX60MM		
			5/8X60MM	25	21540.158.060	1INX100MM		
1/2X30MM	50	21540.127.030	5/8X70MM	25	21540.158.070			
1/2X35MM	50	21540.127.035	5/8X80MM	25	21540.158.080			

- Depending on availability class 5.8 can be supplied.

Stud metal end $\approx 1d$



DIN 938
 NEN 2331
 NF E25-135



Technical data

d	P	$b_1 \approx 1d$	b_2	x_1	$b_2 = L - (x_1 + 3)$ t/m L \leq
M5	0,8	5	16	2,0	20
M6	1	6	18	2,5	22
M8	1,25	8	22	3,2	28
M10	1,5	10	26	3,8	30
M12	1,75	12	30	4,3	35
M14	2	14	34	5,0	40
M16	2	16	38	5	45
M20	2,5	20	46	6,3	55
M24	3	24	54	7,5	65
M30	3,5	30	66	9,0	80

- ATTENTION: when ordering studs acc. to DIN the diameter d x the effective length L has to be stated e.g. stud M10 x 70 - DIN 938, where L = 70 mm is the working length and $b_1 = 10$ mm the metal end. The total length is $70 + 10 = 80$ mm. The thread length on the outside $b_2 = 26$ mm.
- The screw-in threaded end has been made with tolerance Sk6, acc. to DIN 13-51, meaning "heavy fit", and prevents loosening of studs during disassembly.
- Studs acc. to DIN 938 with a metal end $\approx 1d$ have many applications, among others in steel.

Article groups

Thread	Material	Class	Packaging	Code	Page
M	St	8.8	Standard	21560	4-30
M	St.St. A2		Standard	51280	4-31

21560 Stud metal end $\approx 1d$

G07A

Thread Metric thread
Material Steel
Class 8.8
Packaging Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M6X20	200	21560.060.020	M10X50	100	21560.100.050	M16X60	50	21560.160.060
M6X25	200	21560.060.025	M10X55	100	21560.100.055	M16X70	25	21560.160.070
M6X30	200	21560.060.030	M10X60	100	21560.100.060	M16X80	25	21560.160.080
M6X40	200	21560.060.040	M10X70	100	21560.100.070	M16X90	25	21560.160.090
M6X50	200	21560.060.050				M16X100	25	21560.160.100
M8X20	100	21560.080.020	M12X25	100	21560.120.025	M20X40	25	21560.200.040
M8X25	100	21560.080.025	M12X30	100	21560.120.030	M20X45	25	21560.200.045
M8X30	100	21560.080.030	M12X35	100	21560.120.035	M20X50	25	21560.200.050
M8X35	100	21560.080.035	M12X40	100	21560.120.040	M20X55	25	21560.200.055
M8X40	100	21560.080.040	M12X45	100	21560.120.045	M20X55	25	21560.200.055
M8X50	100	21560.080.050	M12X50	50	21560.120.050	M20X60	25	21560.200.060
M8X60	100	21560.080.060	M12X60	50	21560.120.060	M20X70	25	21560.200.070
M8X70	100	21560.080.070	M12X70	50	21560.120.070	M20X80	25	21560.200.080
			M12X80	50	21560.120.080	M20X100	10	21560.200.100
M10X20	100	21560.100.020	M12X90	50	21560.120.090	M20X120	10	21560.200.120
M10X25	100	21560.100.025	M12X100	50	21560.120.100			
M10X30	100	21560.100.030	M16X35	50	21560.160.035	M24X60	10	21560.240.060
M10X35	100	21560.100.035	M16X40	50	21560.160.040	M24X70	10	21560.240.070
M10X40	100	21560.100.040	M16X45	50	21560.160.045	M24X80	10	21560.240.080
M10X45	100	21560.100.045	M16X50	50	21560.160.050			

51280 Stud metal end ≈ 1d		R09A
Thread	Metric thread	
Material	Stainless steel A2	
Packaging	Standard	

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
M5X16 *	200	51280.050.016	M10X60	25	51280.100.060	M16X75 *	50	51280.160.075
M5X20 *	200	51280.050.020	M10X65 *	100	51280.100.065	M16X80	10	51280.160.080
			M10X70	25	51280.100.070	M16X85 *	50	51280.160.085
M6X16 *	200	51280.060.016	M10X80 *	100	51280.100.080	M16X90 *	50	51280.160.090
M6X20	100	51280.060.020	M10X90 *	100	51280.100.090	M16X100 *	50	51280.160.100
M6X25	100	51280.060.025	M10X100 *	100	51280.100.100	M16X110 *	50	51280.160.110
M6X30	100	51280.060.030	M10X110 *	100	51280.100.110			
M6X35	100	51280.060.035				M20X40	5	51280.200.040
M6X40	100	51280.060.040	M12X30	10	51280.120.030	M20X45	5	51280.200.045
M6X45 *	200	51280.060.045	M12X35	10	51280.120.035	M20X50	5	51280.200.050
M6X50 *	200	51280.060.050	M12X40	10	51280.120.040	M20X55	5	51280.200.055
			M12X45	10	51280.120.045	M20X60	5	51280.200.060
M8X16 *	200	51280.080.016	M12X50	10	51280.120.050	M20X70	5	51280.200.070
M8X20	50	51280.080.020	M12X55	10	51280.120.055	M20X75	5	51280.200.075
M8X25	50	51280.080.025	M12X60	10	51280.120.060	M20X80	5	51280.200.080
M8X30	50	51280.080.030	M12X70	10	51280.120.070	M20X85 *	50	51280.200.085
M8X35	50	51280.080.035	M12X75 *	100	51280.120.075	M20X90 *	50	51280.200.090
M8X40	50	51280.080.040	M12X80	10	51280.120.080	M20X100 *	50	51280.200.100
M8X50	50	51280.080.050	M12X90 *	100	51280.120.090			
M8X55 *	200	51280.080.055	M12X100 *	100	51280.120.100	M24X50 *	50	51280.240.050
M8X60	50	51280.080.060	M12X110 *	100	51280.120.110	M24X60 *	50	51280.240.060
M8X70	50	51280.080.070				M24X65 *	50	51280.240.065
			M14X30 *	50	51280.140.030	M24X70 *	50	51280.240.070
M10X16 *	100	51280.100.016	M16X30 *	50	51280.160.030	M24X75 *	50	51280.240.075
M10X20	25	51280.100.020	M16X35	10	51280.160.035	M24X80 *	50	51280.240.080
M10X25	25	51280.100.025	M16X40	10	51280.160.040			
M10X30	25	51280.100.030	M16X45	10	51280.160.045	M30X80 *	25	51280.300.080
M10X35	25	51280.100.035	M16X50	10	51280.160.050	M30X90 *	25	51280.300.090
M10X40	25	51280.100.040	M16X55	10	51280.160.055			
M10X50	25	51280.100.050	M16X60	10	51280.160.060			
M10X55	25	51280.100.055	M16X65	10	51280.160.065			