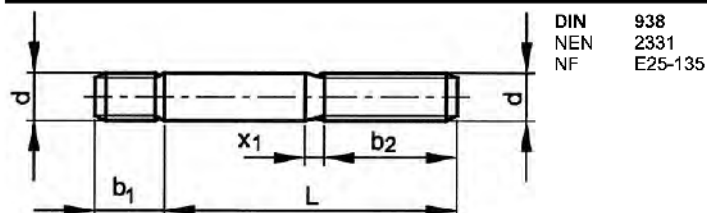


DIN 938

Stud metal end $\approx 1d$



Technical Data

d	$b_1 \approx 1d$	b_2	$b_2 = L - (x_1 + 3) \text{ t/m } L \leq$	P	x_1
M5	5	16	20	0.8	2.0
M6	6	18	22	1	2.5
M8	8	22	28	1.25	3.2
M10	10	26	30	1.5	3.8
M12	12	30	35	1.75	4.3
M14	14	34	40	2	5.0
M16	16	38	45	2	5.0
M20	20	46	55	2.5	6.3
M24	24	54	65	3	7.5
M30	30	66	80	3.5	9.0

- 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.

Materials

Thread	Material	Class
M	St	8.8
M	St.St. A2	70
M	St.St. A4	70

Stud metal end $\approx 1d$

Thread Metric thread
Material Steel
Class 8.8



d x L	d x L	d x L
M6X20 200	M10X35 100	M12X100 50
M6X25 200	M10X40 100	
M6X30 200	M10X45 100	M16X35 50
M6X40 200	M10X50 100	M16X40 50
M6X50 200	M10X55 100	M16X45 50
	M10X60 100	M16X50 50
M8X20 100	M10X70 100	M16X60 50
M8X25 100		M16X70 25
M8X30 100	M12X25 100	M16X80 25
M8X35 100	M12X30 100	M16X90 25
M8X40 100	M12X35 100	M16X100 25
M8X50 100	M12X40 100	
M8X60 100	M12X45 100	M20X40 25
M8X70 100	M12X50 50	M20X45 25
	M12X60 50	M20X50 25
M10X20 100	M12X70 50	M20X55 25
M10X25 100	M12X80 50	M20X60 25
M10X30 100	M12X90 50	M20X70 25
		M20X80 25
		M20X100 10
		M20X120 10
		M24X60 10
		M24X70 10
		M24X80 10

Stud metal end $\approx 1d$		
Thread Material Class	Metric thread Stainless steel A2 70	DIN 938
		 

d x L		d x L		d x L	
M5X16*	200	M10X65*	100	M16X65	10
M5X20*	200	M10X70	25	M16X70*	50
		M10X80*	100	M16X75*	50
M6X16*	200	M10X90*	100	M16X80	10
M6X20	100	M10X100*	100	M16X85*	50
M6X25	100	M10X110*	100	M16X90*	50
M6X30	100			M16X100*	50
M6X35	100	M12X20*	100	M16X110*	50
M6X40	100	M12X25*	100		
M6X45*	200	M12X30	10	M20X35*	50
M6X50*	200	M12X35	10	M20X40	5
M6X55*	200	M12X40	10	M20X45	5
		M12X45	10	M20X50	5
M8X16*	200	M12X50	10	M20X55	5
M8X20	50	M12X55	10	M20X60	5
M8X25	50	M12X60	10	M20X65*	50
M8X30	50	M12X65*	100	M20X70	5
M8X35	50	M12X70	10	M20X75	5
M8X40	50	M12X75*	100	M20X80	5
M8X45*	200	M12X80	10	M20X85*	50
M8X50	50	M12X90*	100	M20X90*	50
M8X55*	200	M12X100*	100	M20X100*	50
M8X60	50	M12X110*	100		
M8X70	50			M24X50*	50
		M14X30*	50	M24X60*	50
M10X16*	100	M14X40*	50	M24X65*	50
M10X20	25	M14X50*	50	M24X70*	50
M10X25	25			M24X75*	50
M10X30	25	M16X30*	50	M24X80*	50
M10X35	25	M16X35	10		
M10X40	25	M16X40	10	M27X85*	25
M10X45*	100	M16X45	10		
M10X50	25	M16X50	10	M30X80*	25
M10X55	25	M16X55	10	M30X90*	25
M10X60	25	M16X60	10		

- Sizes with a diameter > M24 and sizes with a length > 8xd are minimal property class 50.

Stud metal end $\approx 1d$		
Thread Material Class	Metric thread Stainless steel A4 70	DIN 938
		 

d x L		d x L		d x L	
M5X20*	200	M8X25*	200	M10X50*	100
		M8X30*	200	M10X55*	100
M6X16*	200	M8X35*	200	M10X60*	100
M6X20*	200	M8X40*	200	M10X70*	100
M6X25*	200	M8X45*	200	M10X85*	100
M6X30*	200	M8X50*	200	M10X90*	100
M6X35*	200	M8X55*	200		
M6X40*	200	M8X60*	200	M12X25*	100
M6X50*	200	M8X75*	200	M12X30*	100
M6X55*	200	M8X90*	200	M12X35*	100
M6X60*	200	M8X95*	200	M12X40	100
M6X65*	200			M12X45*	100
M6X70*	200	M10X20*	100	M12X50*	100
M6X80*	200	M10X25*	100	M12X55*	100
M6X90*	200	M10X30*	100	M12X60*	100
		M10X35	100	M12X65*	100
M8X16*	200	M10X40*	100	M12X70*	100
M8X20*	200	M10X45*	100	M12X75*	100

d x L		d x L		d x L	
M12X80*	100	M16X55*	50	M20X40*	50
M12X85*	100	M16X60*	50	M20X45*	50
M12X90*	100	M16X65*	50	M20X50*	50
M12X95*	100	M16X70*	50	M20X55*	50
		M16X75*	50	M20X60*	50
M14X80*	50	M16X80*	50	M20X65*	50
		M16X85*	50	M20X70*	50
M16X30	50	M16X90*	50	M20X75*	50
M16X35*	50	M16X100*	50	M20X80*	50
M16X40*	50	M16X110*	50	M20X90*	50
M16X45*	50			M20X100*	50
M16X50*	50	M20X35*	50	M20X120*	50

- Sizes with a diameter > M24 and sizes with a length > 8xd are minimal property class 50.