UDC 621.882.626

August 1971

Bolted connections with waisted shank
Studs

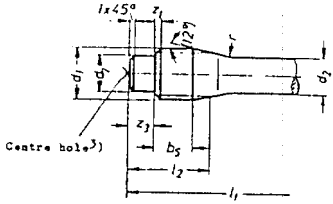
DIN
2510
Part 4

Schraubenverbindungen mit Dehnschaft; Stiftschrauben

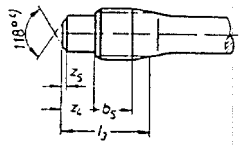
Dimensions in mm

Metal end

Type G with flat bearing face

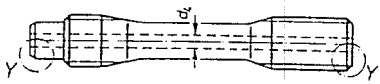


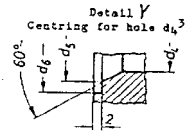
Type H with coned bearing face



other dimensions and details as for Type G

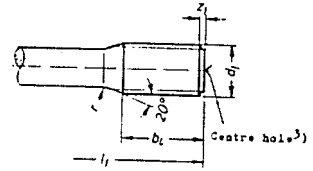
Heating hole for M 64 DIN 2510[5])



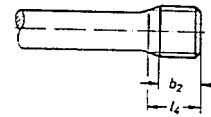


Nut end

Type P with long thread

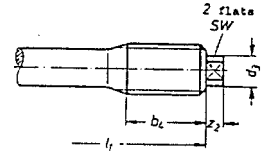


Type Q with short thread



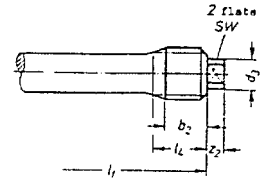
other dimensions and details as for Type P

Type R with long thread and point



other dimensions and details as for Type P

Type S with short thread and point



other dimensions and details as for Type P

1) to 5) see on page 3

For Explanations see DIN 2510 Part 1

Continued on pages 2 and 3

Designation of a stud with metal end of Type G and nut end of Type R with thread d_1 = M 30 and nominal length l_1 = 150 mm[1]) in 24CrMo5 (code letter G2)):

Stud GR M 30 x 150 DIN 2510 - 24CrMo5

Thread d_1 acc. to DIN 2510 Part 2	M 12	M 16	M 20	M 24	M 27	M 30	M 33	M 36	M 39	M 42	M 45
d_2	8,5	12	15	18	20,5	23	25,5	27,5	30,5	32,5	35,5
d_3	8	12	14	14	18	18	25	25	28	28	32
d_7	8,5	12	15	18	21	23	26	28	31	33	36
h_2	13	16	20	24	27	30	33	36	39	42	45
h_4	23	27	33	38	43	46	51	54	57	61	64
h_5	10	13,5	16,5	20	22,5	25	27,5	30	32,5	35	37,5
l_2	19,5	24	30,5	36,5	39	44,5	47	52	54,5	60	62,5
l_3	21	26	33	39,5	42	48	50,5	56	58,5	65	67,5
l_4	16	19,5	24	29	32	36	39	42,5	45,5	49,5	52,5
r	10	10	10	16	16	16	16	20	20	20	20
SW	7	10	11	11	13	13	22	22	24	24	27
z_1 max.	1,75	2	2,5	3	3	3,5	3,5	4	4	4,5	4,5
z_2	4	5	6	6	6	6	9	9	10	10	11
z_3	4,5	5	7	8	8	9,5	9,5	10,5	10,5	12	12
z_4	6	7	9,5	11	11	13	13	14,5	14,5	17	17
z_5	1	1,5	1,5	2	2	2,5	2,5	3	3	3,5	3,5
Centre hole[2])	A 1,6					A 2,5					

Thread d_1 acc. to DIN 2510 Part 2	M 48	M 52	M 56	M 64	M 72×6	M 80×6	M 90×6	M 100×6	M 110×6	(M 120×6)
d_2	37,5	41	44	51	58,5	66	75	84	92,5	102
d_3	32	36	40	42	50	50	50	50	50	50
d_4	—	—	—	18	25	25	25	25	25	25
d_5	—	—	—	25	32	32	32	32	32	32
d_6	—	—	—	30	37	37	37	37	37	37
d_7	38	42	45	52	60	68	78	88	98	108
h_2	48	52	56	64	72	80	90	100	110	120
h_4	67	72	77	88	96	104	115	125	136	147
h_5	39,5	43,5	46,5	53,5	60,5	67,5	76,5	85,5	94,5	103,5
l_2	67	71	77	86,5	93,5	100,5	109,5	118,5	127,5	136,5
l_3	73	76,5	83	90	97	104,5	114	123,5	132,5	142
l_4	56,5	60,5	65	74	82	90	100	110	120	130
r	20	20	25	25	25	25	25	25	25	32
SW	27	30	32	36	41	41	41	41	41	41
z_1 max.	5	5	5,5	6	6	6	6	6	6	6
z_2	11	12	13	14	15	15	15	15	15	15
z_3	13	13	14,5	15,5	15,5	15,5	15,5	15,5	15,5	15,5
z_4	18,5	18,5	20,5	19	19	19,5	20	20,5	20,5	21
z_5	4	4	4,5	2,5	2,5	3	3,5	4	4	4,5
Centre hole[2])	A 2,5			A 4					A 6,3	

The bracketed size should be avoided where possible.

[1]), [2]) and [3]) see on page 3

Technical conditions of delivery and materials according to DIN 267 Part 13

Type: m according to DIN 267 Part 13

f only to special order. The designation in this case reads, e.g.:

Stud GR M 30 x 150 DIN 2510 - f - 24CrMo5

Marking: according to DIN 267 Part 13

Unless agreed to the contrary when ordering, the marking should be applied to the end face of the point z_2 or to the end face at the nut end.

1) Nominal length l_1 to be stated when ordering (see also DIN 2510 Part 1)

2) Instead of the code number the code letter of the material may also be stated in the designation. In such cases the designation reads, e.g.:

Stud GR M 30 x 150 DIN 2510 - G

3) Centring according to DIN 332 and detail Y only for studs of type f.

4) For M 64 DIN 2510 and upwards the angle is 150°

5) If studs for M 64 DIN 2510 and upwards are required without hole d_4, the letter O should be inserted in the designation, e.g.:

Stud GRO M 64 x 400 DIN 2510 - 24CrMo5