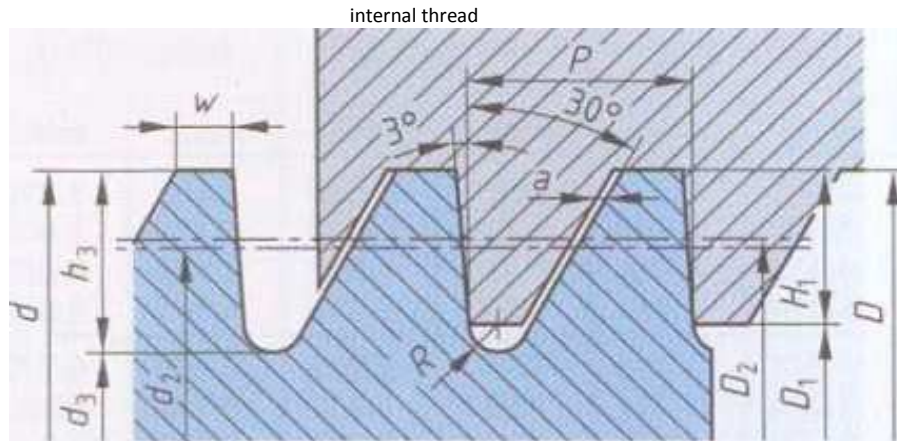


DE =	EN =	PT =	VN =
Trapezoidal threads			

Metric buttress threads

cf. DIN 513 (1985-04)



- Nominal thread size $d = D$
- Pitch P
- Minor Ø external threads $d_3 = d - 1.736 \cdot P$
- Minor Ø internal threads $D_1 = d - 1.5 \cdot P$
- Pitch Ø external threads $d_2 = d - 0.75 \cdot P$
- Pitch Ø internal threads $d_2 = d - 0.75 \cdot P + 3.176 \cdot a$
- Axial clearance $a = 0.1 \cdot \sqrt{P}$
- External thread depth $h_3 = 0.8678 \cdot P$
- Internal thread depth $H_1 = 0.75 \cdot P$
- Radius $R = 0.124 \cdot P$
- Crest width on major Ø $w = 0.264 \cdot P$
- Thread angle 33°

external thread

Thread designation d x P	External threads		Internal threads			Thread designation d x P	External threads		Internal threads		
	Minor Ø d_3	Thread depth h_3	Minor Ø D_1	Thread depth H_1	Pitch Ø d_2		Minor Ø d_3	Thread depth h_3	Minor Ø D_1	Thread depth H_1	Pitch Ø d_2
S 12 x 3	6.79	2.60	7.5	2.25	9.75	S 44 x 7	31.85	6.07	33.5	5.25	38.75
S 16 x 4	9.06	3.47	10.0	3.00	13.00	S 48 x 8	34.12	6.94	36	6.00	42.00
S 20 x 4	13.06	3.47	14.0	3.00	17.00	S 52 x 8	38.11	6.94	40	6.00	46.00
S 24 x 5	15.32	4.34	16.5	3.75	20.25	S 60 x 9	44.38	7.81	46.5	6.75	53.25
S 28 x 5 1	9.32	4.34	20.5	3.75	24.25	S 70 x 10	52.64	8.68	55	7.50	62.50
S 32 x 6	21.58	5.21	23.0	4.50	27.50	S 80 x 10	62.64	8.68	65	7.50	72.50
S 36 x 6	25.59	5.21	27.0	4.50	31.50	S 90 x 12	69.17	10.41	72	9.00	81.00
S 40 x 7	27.85	6.07	29.5	5.25	34.75	S 100 x 12	79.17	10.41	82	9.00	91.00

gezeichnet:	HPW	Datum:		education project	Trapezgewinde	translate/en_ds/p_ct/vn_ro	orign: MT, S. 207
Aenderung:	an	Datum:	27.08.2013	WIAP KFKOK	Trapezoidal threads	r1a	datei_wi_8_f_19_k14_r1a_207_b_t
Aenderung:	control 2	Data:		Safenwil Schweiz	spear 2	www.wiap.ch	idee of / from HPW