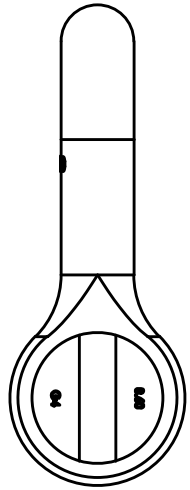


“Refer to protection notice ISO 16016.”
„Schutzvermerk ISO 16016 beachten.“

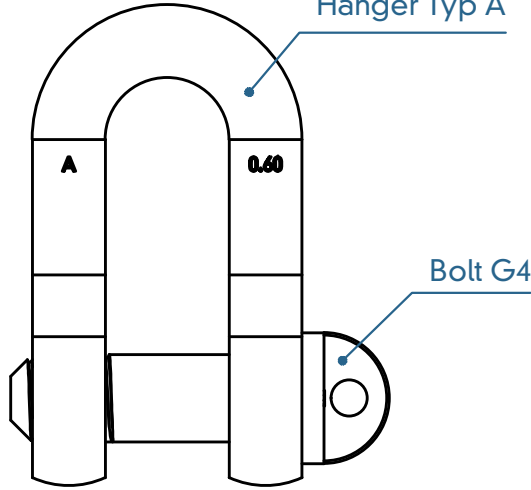
A

Shackle - Typ A



2

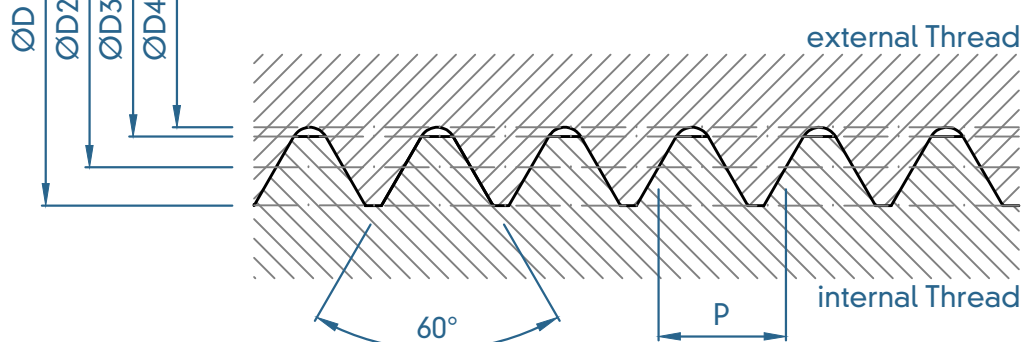
Hanger Typ A



3

4

Metric Thread



5

6

7

8

DIN 82101 - Shackle Hanger Typ A

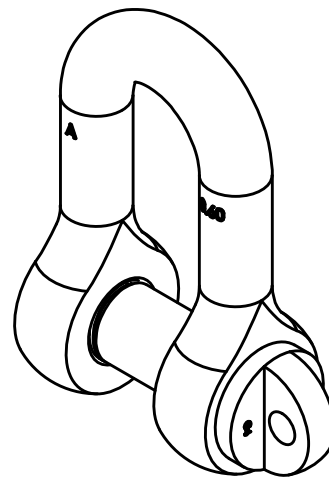
Type	Ød1	Ød2	Ød3	b	h	t1	t2	Thread
0,06	3,5	8	4,3	13	18	0,5	0,5	M4
0,1	4	10	5,3	15	23	0,5	0,5	M5
0,16	5	12	6,4	18	27	0,5	0,8	M6
0,25	7	16	8,4	25	36	0,5	1	M8
0,4	8	20	10,5	30	45	0,5	1	M10
0,6	10	24	13	37	54	0,5	1,5	M12
1	13	32	17	47	72	1	1,8	M16
1,6	17	40	21	61	90	1	1,8	M20
2	19	44	23	68	99	1	2	M22
2,5	21	48	25	75	108	1	2	M24
3	24	54	28	86	123	1	2,5	M30
4	27	60	31	96	135	1	2,5	M36
5	30	72	37	107	162	2	3	M39
6	34	78	40	121	176	2	3	M45
8	38	90	46	136	203	2	3	M48
10	42	96	50	150	216	2	4	M52
12	47	104	54	167	234	2	4	M60
16	52	120	62	185	270	2	4	M68
20	58	136	70	206	306	2	5	

DIN 82101 - Shackle Bolt G4

Type	Ød4	Ød5	Ød6	c1	c2	s	k	z	l1	l2	r	Thread
0,06	3	4	7	1,5	4	2,5	7	1	14	4,5	0,5	M4
0,1	3	5	8	2	4,5	3	7,5	1,25	16	5	0,5	M5
0,16	3	6	10	2	4,5	3,5	7,5	1,5	20	7	0,5	M6
0,25	3	8	12	2,5	5,5	4	9,5	2	27	9	0,5	M8
0,4	4	10	15	2,5	6	4	11	2,5	32	10	0,5	M10
0,6	5	12	18	3	6,5	5	12	3	40	13	0,5	M12
1	5	16	23	3	7,5	5	13,5	4	50	16	1	M16
1,6	6	20	28	4	10	7	18	5	65	21	1	M20
2	8	22	30	4	11	7	20	5,5	72	23	1	M22
2,5	9	24	32	4	12	7	22	6	80	26	1	M24
3	10	27	35	5	14	9	26	6,7	91	29	1	M27
4	12	30	38	5	14	9	26	7,5	101	32	1	M30
5	12	36	46	6	16	10	30	9	113	36	2	M36
6	14	39	49	6	18	10	34	9,7	127	40	2	M39
8	16	45	55	7	21	12	39	11,2	143	45	2	M45
10	18	48	60	7	21	12	39	12	158	50	2	M48
12	18	52	64	8	23	14	43	13	175	55	2	M52
16	20	60	72	9	25	16	45	15	193	60	2	M60
20	22	68	80	9	27	16	51	17	215	67	2	M68

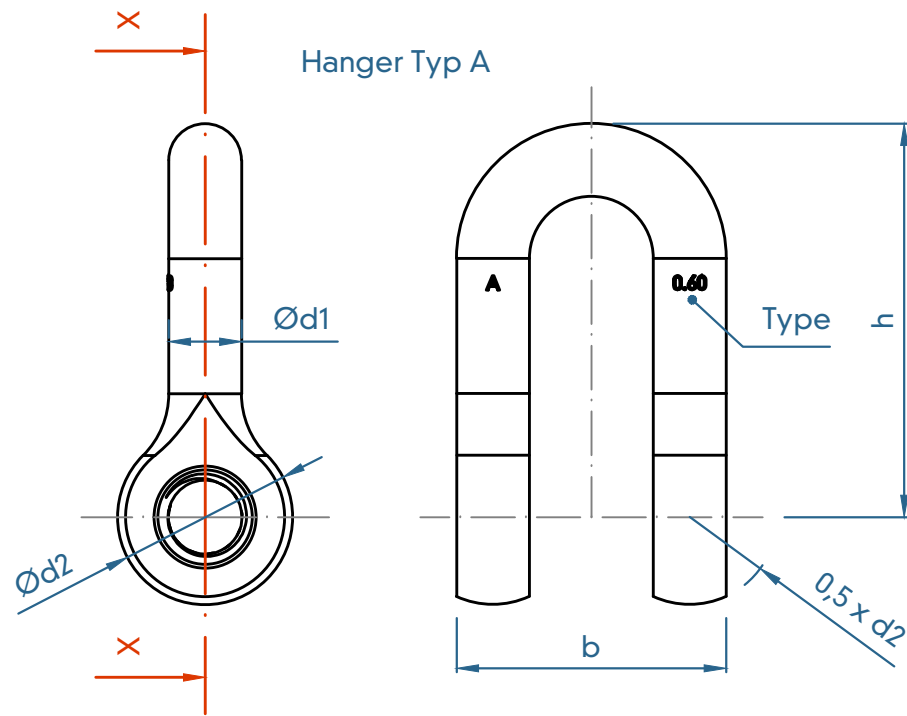
Metric Thread

Thread	ØD	ØD2	ØD3	ØD4	P
0,06	4	3,545	3,242	3,141	0,7
0,1	5	4,48	4,134	4,019	0,8
0,16	6	5,35	4,917	4,773	1
0,25	8	7,188	6,647	6,466	1,25
0,4	10	9,026	8,376	8,16	1,5
0,6	12	10,863	10,106	9,853	1,75
1	16	14,701	13,835	13,546	2
1,6	20	18,376	17,294	16,933	2,5
2	22	20,376	19,294	18,933	2,5
2,5	24	22,051	20,752	20,319	3
3	27	25,051	23,752	23,319	3
4	30	27,727	26,211	25,706	3,5
5	36	33,402	31,67	31,093	4
6	39	36,402	34,67	34,093	4
8	45	42,077	40,129	39,479	4,5
10	48	44,752	42,587	41,866	5
12	52	48,752	46,587	45,866	5
16	60	56,428	54,046	53,252	5,5
20	68	64,103	61,505	60,639	6



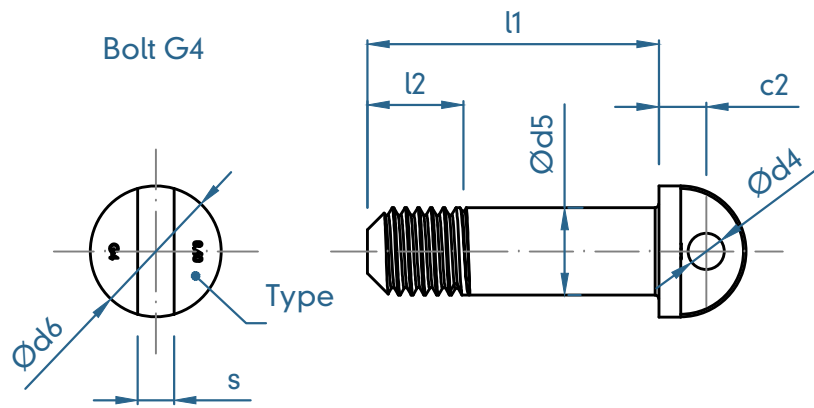
C

Hanger Typ A



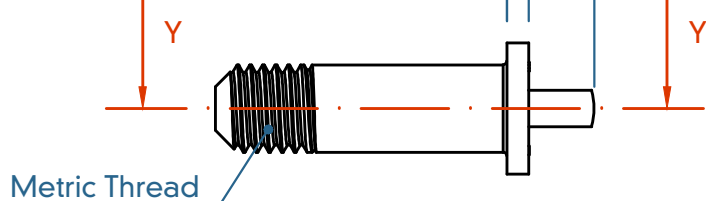
D

Bolt G4



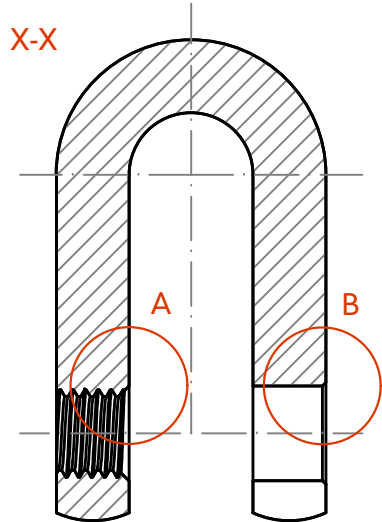
E

Metric Thread

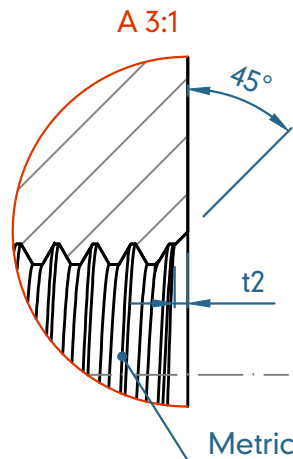


F

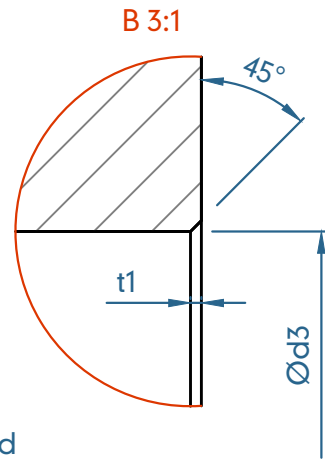
X-X



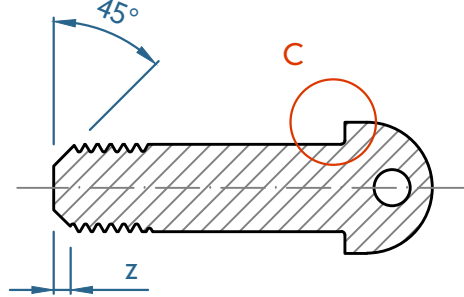
A 3:1



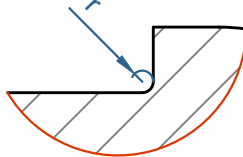
B 3:1

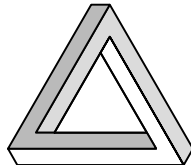


Y-Y



C 3:1



Benennung Schäkel, gerade				Version A.1	
Planart Fertigungsplan		Zeichnungsstatus -		ATLAS INGENIEURWESEN 	
Zeichnungsnummer -		Gezeichnet-Name / Datum Jakob J. Langenberg / 18-Oct-2018			
Projekt -		Geprüft-Name / Datum - / -			
Anmerkungen DIN 82101 - Shackle Typ A - - -		Freigabe-Name / Datum - / -			
		Freigabe-Unterschrift <i>J. Langenberg</i>			
		Sonstiges			
Maßstab 1:1	Blattformat DIN A2	Material -	Toleranz -		