

Claw bolt with flat bearing faces

Description

Claw bolts with flat bearing faces are designed for flange assembly on pressure and non-pressure equipment. They are forged in accordance with DIN 7526F and are available in various carbon steel and stainless steel grades.

Conception

Claw bolts with flat bearing faces are manufactured by forging to provide excellent mechanical strength and high in-service reliability. The components are produced in accordance with DIN 7526F, with manufacturing tolerances complying with DIN 7168. Threads are machined in accordance with DIN 13 and may be supplied with DIN 2510 Form NF nuts or equivalent.

Available in various carbon steel and stainless steel grades:



Material	Standard
42CD4 – High-strength alloy steel	According to EN 10083-3
1.4541 (AISI 321) – Stainless steel	According to EN 10083-3
SA 193. B7 and SA 194. 2H	ASME compliant
SA 193. B8T and SA 194. B8T	ASME compliant
Other grades Available according to customer specification	Upon request



The material certificates are provided in accordance with the European Directive DESP 2014/68/EU.

Inspection certificates EN 10204 3.1 can be provided upon request.



DESP
2014/68/EU

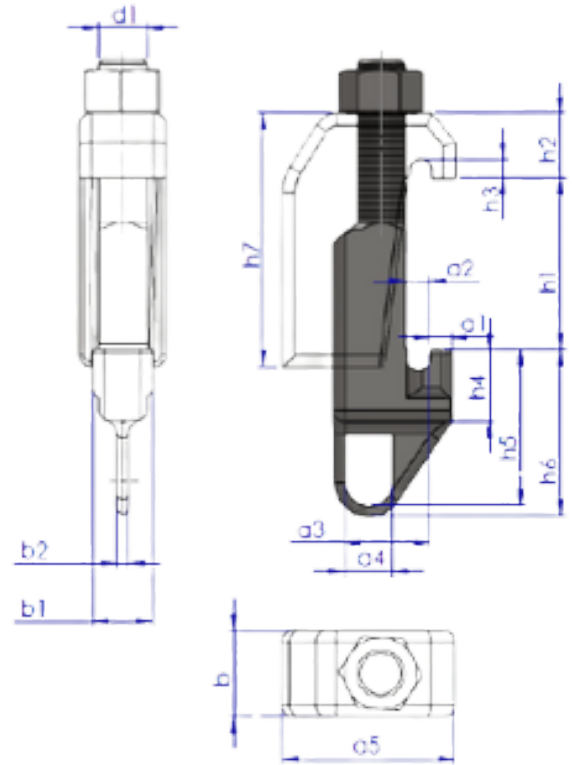
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Allowable load for steel bolts

TYPE d1	CLAMPING RANGE h1	ELASTIC LIMIT F1% (N)	PROOF LOAD Fm (N)	ALLOWABLE LOAD (N) AT SERVICE TEMPERATURE (°C) INCLUDING A SAFETY FACTOR OF 0.9			
				-60 / +20	200	250	300
M12x60	40 - 55	53 200	70 600	15 900 / 10 800	9 300	8 400	7 600
M16x75	50 - 75	68 170	86 760	22 660 / 46 600	20 600	19 780	18 950
M16x100	75 - 100						
M16x120	100 - 120						
M20x85	60 - 85	107 030	136 220	39 900 / 73 200	36 270	34 820	33 370
M20x100	85 - 100						
M20x120	95 - 120						
M24x100	70 - 100	153 990	195 990	61 700 / 105 300	56 090	53 850	51 600
M24x120	90 - 120						
M24x150	120 - 150						
M24x190	150 - 190						
M27x120	80 - 120	203 910	259 520	85 550 / 139 400	77 770	74 660	71 550
M27x160	120 - 160						
M27x200	160 - 200						
M27x240	200 - 240						
M27x340	240 - 340						
M30x120	80 - 120	248 900	316 800	107 500 / 191 500	97 700	93 800	89 900
M30x160	120 - 160						
M30x200	160 - 200						
M30x240	200 - 240						
M30x340	240 - 340						
M33x140	100 - 140	310 350	394 990	137 746 / 212 200	125 220	120 220	115 210
M33x180	140 - 180						
M33x220	180 - 220						
M33x260	220 - 260						
M33x300	260 - 300						

* Values applicable depending on size and temperature.



Allowable load for stainless steel bolts

Type d1	Clamping capacity h1	Elastic limit F1% (N)	Proof load Fm(N)	Allowable load Minimum load in N at a service temperature of ..°C taking into account a coefficient of 0,9								
				-196 / +20	50	100	150	200	250	300	350	400
M16x75 M16x100 M16x120	50 - 75 75 - 100 100-120	29 255	62 245	9 735 *22500	9 190	8 616	8 087	7 664	7 250	6 918	6 669	6 462
M20x85 M20x100 M20x120	60 - 85 85 - 100 95 - 120	45 911	97 684	17 132 *35316	16 184	15 163	14 215	13 486	12 758	12 175	11 737	11 373
M24x100 M24x120 M24x150 M24x190	70 - 100 90 - 120 120 - 150 150 - 190	66 146	140 736	26 529 *50881	25 061	23 481	22 014	20 884	19 755	18 853	18 175	17 611
M27x120 M27x160 M27x200 M27x240 M27x340	80 - 120 120 - 160 160 - 200 200 - 240 240 - 340	87 529	186 233	36 748 *67330	34 715	32 525	30 493	28 929	27 365	26 115	25 176	24 394
M30x120 M30x160 M30x200 M30x240 M30x340	80 - 120 120 - 160 160 - 200 200 - 240 240 - 340	106 106 106 376	226 333	45 916 *81828	43 376	40 641	38 100	36 147	34 194	32 630	31 457	30 481

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Dimensions of claw bolts with flat bearing faces

Type d1	Clamping capacity h1	Length								Width					Thickness			Weight
		h	h2	h3	h4	h5	h6	h7	h5-h4	a1	a2	a3	a4	a5	b	b1	b2	kg
M12x65	35 - 60	133	15	4	10	35	42	67	25	5	4	15	8	38	33	30	8	0.4
M16x75	50 - 75	180	23	8	23	48	56	90	25	10	10	26	20	60	36	25	10	0.7
M16x100	75 - 100	203	23	8	23	48	56	90	25	10	10	26	20	60	36	25	10	1.0
M16x120	100 - 120	225	23	8	23	48	56	90	25	10	10	26	20	60	36	25	10	1.3
M20x85	60 - 85	206	27	8	25	52	60	105	25	10	10	28	20	72	42	30	10	1.5
M20x100	85 - 100	221	27	8	25	52	60	105	25	10	10	28	20	72	42	30	10	1.7
M20x120	95 - 120	241	27	8	25	52	60	105	25	10	10	28	20	72	42	30	10	2.0
M24x100	70 - 100	242	32	8	32	62	71	120	30	12	10	30	20	82	48	34	10	2.3
M24x120	90 - 120	262	32	8	32	62	71	120	30	12	10	30	20	82	48	34	10	2.6
M24x150	120 - 150	292	32	8	32	62	71	120	30	12	10	30	20	82	48	34	10	3.0
M24x190	150 - 190	332	32	8	32	62	71	120	30	12	10	30	20	82	48	34	10	3.3
M27x120	80 - 120	280	40	8	40	70	78	145	30	14	10	32	20	92	60	40	10	4.4
M27x160	120 - 160	320	40	8	40	70	78	145	30	14	10	32	20	92	60	40	10	4.7
M27x200	160 - 200	360	40	8	40	70	78	145	30	14	10	32	20	92	60	40	10	5.0
M27x240	200 - 240	400	40	8	40	70	78	145	30	14	10	32	20	92	60	40	10	5.3
M27x340	240 - 340	500	40	8	40	70	78	145	30	14	10	32	20	92	60	40	10	6.4
M30x120	80 - 120	280	40	8	40	70	78	145	30	16	10	32	20	92	60	40	10	4.4
M30x160	120 - 160	320	40	8	40	70	78	145	30	16	10	32	20	92	60	40	10	4.7
M30x200	160 - 200	360	40	8	40	70	78	145	30	16	10	32	20	92	60	40	10	5.0
M30x240	200 - 240	400	40	8	40	70	78	145	30	16	10	32	20	92	60	40	10	5.3
M30x340	240 - 340	500	40	8	40	70	78	145	30	16	10	32	20	92	60	40	10	6.4
M33x140	100 - 140	328	48	8	48	78	86	180	30	20	10	37	20	110	70	70	10	8.0
M33x180	140 - 180	368	48	8	48	78	86	180	30	20	10	37	20	110	70	70	10	9.0
M33x220	180 - 220	408	48	8	48	78	86	180	30	20	10	37	20	110	70	70	10	10.0
M33x260	220 - 260	448	48	8	48	78	86	180	30	20	10	37	20	110	70	70	10	11.0
M33x300	260 - 300	488	48	8	48	78	86	180	30	20	10	37	20	110	70	70	10	12.0
M56x250	150 - 250	522	60	8	60	90	98	250	30	25	10	46	20	150	110	110	10	27.5
M56x350	250 - 350	622	60	8	60	90	98	250	30	25	10	46	20	150	110	110	10	30.0
M56x450	350 - 450	722	60	8	60	90	98	250	30	25	10	46	20	150	110	110	10	35.0

The parts are forged. The dimensions are given for reference only and may vary depending on the batch.

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