

Stainless Steel Weld Nuts

Standard: N/A

Material: SUS301,304,18/8,0Cr18Ni9,X5CrNi1810,X10Cr13,410S21, if you need to use other stainless steel, please let us know.

Heat Treatment: None for normal, If you have special hardness requirement, please let us know.

Surface Hardness: 220HV is Normal, 750HV max after Quench with SUS410

Finish: None.

Thread Direction: Normal is right hand/dextrorotation, if you want left hand, please let us know.

Tensile strength: 700N/mm²

Stainless Steel Weld Nuts, when creating a sculpture or other product out of metal, a welder will occasionally need to attach a weld nut. Weld nuts function in the same way as standard hardware nuts, providing a threaded cylinder to accommodate a bolt. The difference is that welded nuts are meant to be fastened to a welded project and therefore often have additional surface area to attach them to an object.

"Stainless Steel" - With the addition of 12% chromium to iron, stainless steel is formed. The chromium protects the iron against most corrosion or red colored rust; thus the term "stainless steel". The ability of stainless to form a thin layer of protection on its outside surface, called a "passive film", is its most important characteristic in preventing corrosion.

"18-8" - 300 series stainless steel having approximately (not exactly) 18% chromium and 8% nickel. The term "18-8" is used interchangeably to characterize fasteners made of 302,302HQ,303,304,384, XM7, and other variables of these grades with close chemical compositions. There is little overall difference in corrosion resistance among the 18-8 types, but slight differences in chemical composition do make certain grades more resistant than others against particular chemicals or atmospheres.

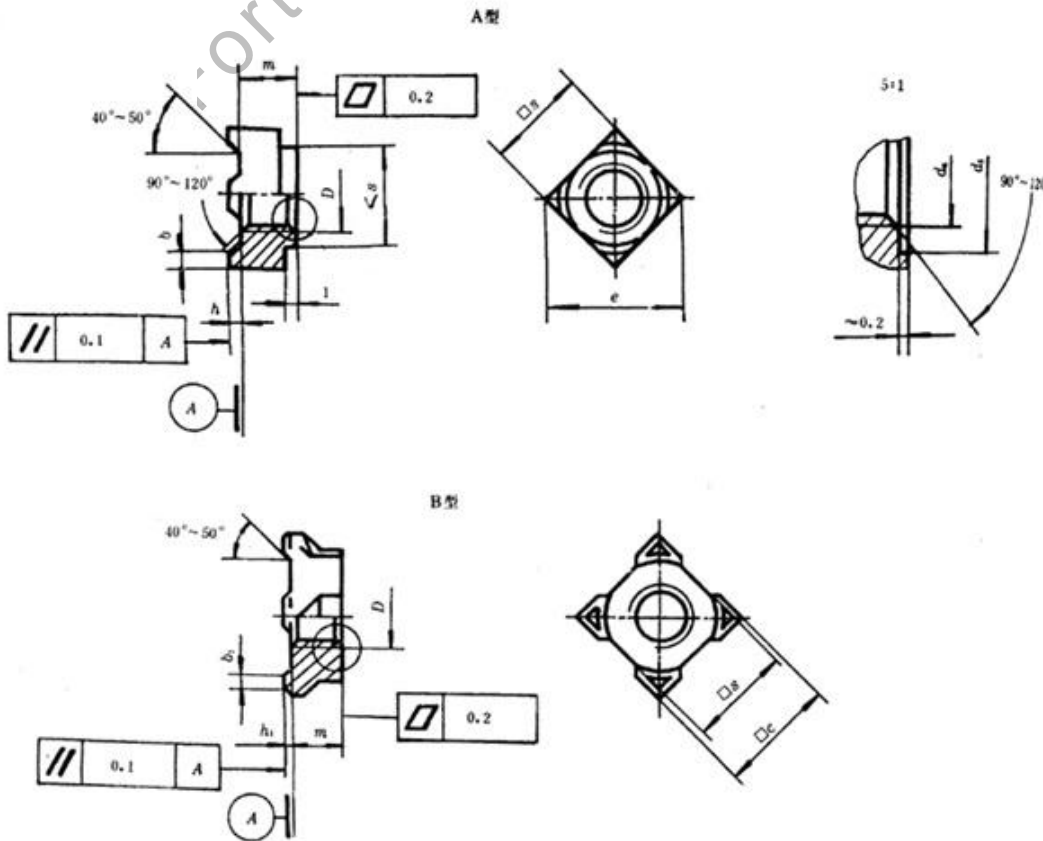
Austenitic - Refers to 300 series stainless, the most popular of the stainless alloys accounting for 85%-90% of stainless fasteners sold Named for sir Robert Williams Austen, an English metallurgist, austenitic stainless is a crystal structure formed by heating steel, chromium, and nickel to a high temperature where it forms the characteristics of 300 series stainless steel.

The typical **Stainless Steel Weld Nuts** as below

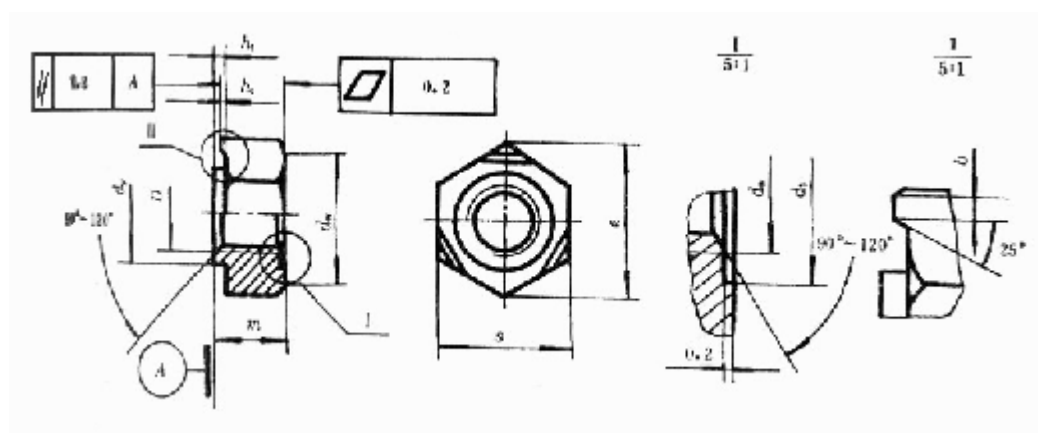




And below is the common drawing for this kind:



螺纹规格 (D 或 D×P)	M4	M5	M6	M8	M10	M12	(M14)	M16	
	—	—	—	M8×1	M10×1	M12×1.5	(M14×1.5)	M16×1.5	
	—	—	—	—	M10×1.25	M12×1.25	—	—	
b	max	0.8	1.0	1.2	1.5	1.8	2.0	2.5	2.5
	min	0.5	0.7	0.9	1.2	1.4	1.6	2.1	2.1
b ₁	max	1.5			1.5	2	—	—	
	min	0.3			0.3	0.5	—	—	
d ₃	max	5.18	6.18	7.72	10.22	12.77	13.77	17.07	19.13
	min	5	6	7.5	10	12.5	13.5	16.8	18.8
d _a	max	4.6	5.75	6.75	8.75	10.8	13	15.1	17.3
	min	4	5	6	8	10	12	14	16
e	min	8.63	9.93	12.53	16.34	20.24	22.84	26.21	30.11
h	max	0.7	0.9	0.9	1.1	1.3	1.5	1.5	1.7
	min	0.5	0.7	0.7	0.9	1.1	1.3	1.3	1.5
h ₁	max	1			1	1.2	—	—	
	min	0.8			0.8	1	—	—	
m	max	3.5	4.2	5.0	6.5	8.0	9.5	11.0	13.0
	min	3.2	3.9	4.7	6.14	7.64	9.14	10.3	12.3
s	max	7	8	10	13	16	18	21	24
	min	6.64	7.64	9.64	12.57	15.57	17.57	20.16	23.16
0.5(c-s)	0.3~0.5		0.5~1		0.5~1		—	—	



螺纹规格 (D 或 D×P)		M4	M5	M6	M8	M10	M12	(M14)	M16
		—	—	—	M8×1	M10×1	M12×1.5	(M14×1.5)	M16×1.5
		—	—	—	—	(M10×1.25)	(M12×1.25)	—	—
d_n	max	4.6	5.75	6.75	8.75	10.8	13	15.1	17.3
	min	4	5	6	8	10	12	14	16
d_w	min	7.88	8.88	9.63	12.63	15.63	17.37	19.57	21.57
e	min	9.83	10.95	12.02	15.38	18.74	20.91	24.27	26.51
d_y	max	5.97	6.96	7.96	10.45	12.45	14.75	16.75	18.735
	min	5.885	6.87	7.87	10.34	12.34	14.64	16.64	18.605
d_3	max	6.18	7.22	8.22	10.77	12.77	15.07	17.07	19.13
	min	6	7	8	10.5	12.5	14.8	16.8	18.8
h_1	max	0.65	0.70	0.75	0.90	1.15	1.40	1.80	1.80
	min	0.55	0.60	0.60	0.75	0.95	1.20	1.60	1.60
h_2	max	0.35	0.40	0.40	0.50	0.65	0.80	1.0	1.0
	min	0.25	0.30	0.30	0.35	0.50	0.60	0.80	0.80
b	max	1	1	1.12	1.25	1.55	1.55	1.9	1.9
	min	0.6	0.6	0.68	0.75	0.95	0.95	1.1	1.1
m	max	3.5	4	5	6.5	8	10	11	13
	min	3.2	3.7	4.7	6.14	7.64	9.64	10.3	12.3
s	max	9	10	11	14	17	19	22	24
	min	8.78	9.78	10.73	13.73	16.73	18.67	21.67	23.67