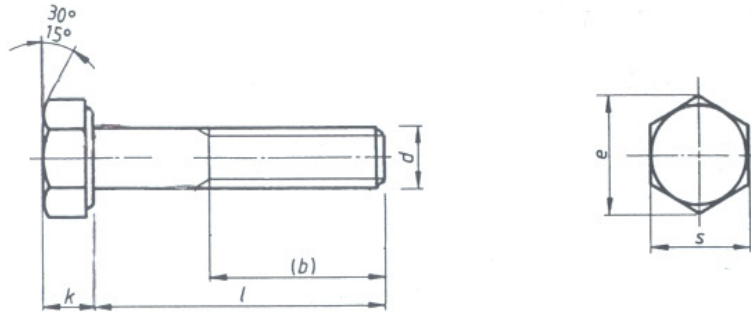


## Fastenal Product Standard: FNL.M.931.8.8.Z

### Hex Cap Screw, DIN 931 Partially Threaded, Class 8.8, Zinc Plated

The information below lists the required dimensional, chemical and physical characteristics of the products in this purchase order. If the order received does not meet these requirements, it may result in a supplier corrective action request, which could jeopardize your status as an approved vendor. Unless otherwise specified, all referenced consensus standards must be adhered to in their entirety.



Nominal Size	d1		S		e		K				DIN 931 Thread Length for Bolt Lengths					
	Body Diameter		Width Across Flats		Width Across		Head Height				125mm & Shorter	Over 125mm & Less than	Over 200mm			
	Max.	Min.		Max.	Min.		Nom.	Grade A		Grade B						
		Grade A	Grade B		Nom.	Grade A		Grade B	Grade A	Grade B	Min.	Max.	Min.	Max.	Nom.	Nom.
3	3	2.86	-	5.5	5.32	-	6.01	-	2	1.88	2.12	-	-	12	-	-
4	4	3.82	-	7	6.78	-	7.66	-	2.8	2.68	2.92	-	-	14	-	-
5	5	4.82	-	8	7.78	-	8.79	-	3.5	3.35	3.65	-	-	16	22	-
6	6	5.82	-	10	9.78	-	11.05	-	4	3.85	4.15	-	-	18	24	-
7	7	6.78	-	11	10.73	-	12.12	-	4.8	4.65	4.95	-	-	20	26	-
8	8	7.78	-	13	12.73	-	14.38	-	5.3	5.15	5.45	-	-	22	28	-
10	10	9.78	-	17	16.73	-	18.90	-	6.4	6.22	6.58	-	-	26	32	45
12	12	11.73	-	19	18.67	-	21.10	-	7.5	7.32	7.68	-	-	30	36	49
14	14	13.73	-	22	21.67	-	24.49	-	8.8	8.62	8.98	-	-	34	40	53
16	16	15.73	15.57	24	23.67	23.16	26.75	26.17	10	9.82	10.18	9.71	10.29	38	44	57
18	18	17.73	17.57	27	26.67	26.16	30.14	29.56	11.5	11.28	11.72	11.15	11.85	42	48	61
20	20	19.67	19.48	30	29.67	29.16	33.53	32.95	12.5	12.28	12.72	12.15	12.85	46	52	65
22	22	21.67	21.48	32	31.61	31	35.72	35.03	14	13.78	14.22	13.65	14.35	50	56	69
24	24	23.67	23.48	36	35.38	35	39.98	39.55	15	14.78	15.22	14.65	15.35	54	60	73
27	27	-	26.48	41	-	40	-	45.20	17	-	-	16.65	17.35	60	66	79
30	30	-	29.48	46	-	45	-	50.85	18.7	-	-	18.28	19.12	66	72	85
33	33	-	32.38	50	-	49	-	55.37	21	-	-	20.58	21.42	72	78	91
36	36	-	35.38	55	-	53.8	-	60.79	22.5	-	-	22.08	22.92	78	84	97
39	39	-	38.38	60	-	58.8	-	66.44	25	-	-	24.58	25.42	84	90	103
42	42	-	41.61	65	-	63.10	-	71.30	26	-	-	26.42	25.58	90	96	109
48	48	-	47.38	75	-	73.10	-	82.60	30	-	-	30.42	29.58	102	108	121

#### Specification Requirements:

- Dimensions: DIN 931.
- Threads: 6g
- Material & Mechanical Properties: ISO 898 Class 8.8.
- Head Marking: Manufacturer's ID and "8.8"
- Coating: Fe/Zn 3AT Per ASTM F1941M
- Material Test Reports: The MTR must have documented lot traceability, including full chemical and mechanical figures, to the specification(s) above.