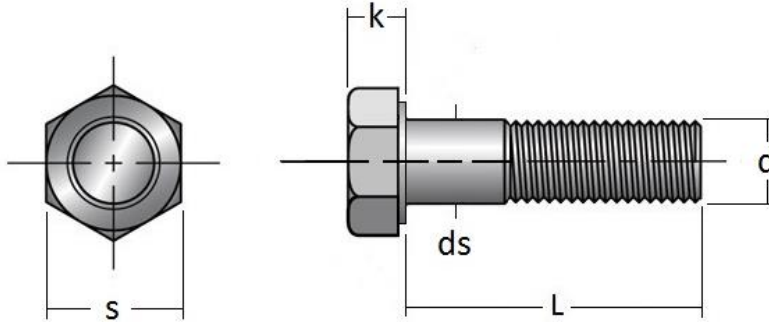


### Metric, Hex Cap Screw, DIN 931 Partially Threaded, Class 10.9, Plain

This product standard contains the required dimensional, mechanical, performance, and chemical characteristics of the products shown in this purchase order (as applicable to the product). Unless specified below, current revisions of national or international standards shall be applicable as of the date of Fastenal's purchase order and must be adhered to in their entirety. If the order received does not meet these requirements, corrective action may be issued which could jeopardize your status as an approved supplier to Fastenal.



Nominal Size	d		ds				s			k			
	Major Diameter		Body Diameter		Width Across Flats		Head Height						
	Max.	Min.	Max.	Min.		Max.	Min.		Grade A		Grade B		
				Grade A	Grade B		Grade A	Grade B	Min.	Max.	Min.	Max.	
M3	2.980	2.874	3	2.86	-	5.5	5.32	-	1.88	2.12	-	-	
M4	3.979	3.838	4	3.82	-	7.0	6.78	-	2.68	2.92	-	-	
M5	4.976	4.826	5	4.82	-	8.0	7.78	-	3.35	3.65	-	-	
M6	5.974	5.794	6	5.82	-	10.0	9.78	-	3.85	4.15	-	-	
M7	6.974	6.794	7	6.78	-	11.0	10.73	-	4.65	4.95	-	-	
M8	7.972	7.760	8	7.78	-	13.0	12.73	-	5.15	5.45	-	-	
M10	9.968	9.732	10	9.78	-	17.0	16.73	-	6.22	6.58	-	-	
M12	11.966	11.701	12	11.73	-	19.0	18.67	-	7.32	7.68	-	-	
M14	13.962	13.682	14	13.73	-	22.0	21.67	-	8.62	8.98	-	-	
M16	15.962	15.682	16	15.73	15.57	24.0	23.67	23.16	9.82	10.18	9.71	10.29	
M18	17.958	17.623	18	17.73	17.57	27.0	26.67	26.16	11.28	11.72	11.15	11.85	
M20	19.958	19.623	20	19.67	19.48	30.0	29.67	29.16	12.28	12.72	12.15	12.85	
M22	21.958	21.623	22	21.67	21.48	32.0	31.61	31.00	13.78	14.22	13.65	14.35	
M24	23.952	23.577	24	23.67	23.48	36.0	35.38	35.00	14.78	15.22	14.65	15.35	
M27	26.952	26.577	27	-	26.48	41.0	-	40.00	-	-	16.65	17.35	
M30	29.947	29.522	30	-	29.48	46.0	-	45.00	-	-	18.28	19.12	
M33	32.947	32.522	33	-	32.38	50.0	-	49.00	-	-	20.58	21.42	
M36	35.940	35.465	36	-	35.38	55.0	-	53.80	-	-	22.08	22.92	
M39	38.940	38.465	39	-	38.38	60.0	-	58.80	-	-	24.58	25.42	
M42	41.937	41.437	42	-	41.61	65.0	-	63.10	-	-	25.58	26.42	
M45	44.937	44.437	45	-	44.38	70.0	-	68.10	-	-	27.58	28.42	
M48	47.929	47.399	48	-	47.38	75.0	-	73.10	-	-	29.58	30.42	
M52	51.929	51.399	52	-	51.26	80.0	-	78.10	-	-	32.50	33.50	
M56	55.925	55.365	56	-	55.26	85.0	-	82.80	-	-	34.50	35.50	
M60	59.925	59.365	60	-	59.26	90.0	-	87.80	-	-	37.50	38.50	
M64	63.920	63.320	64	-	63.26	95.0	-	92.80	-	-	39.50	40.50	

**RECORD OF REVISION CHANGES TO THIS DOCUMENT ARE LOCATED ON THE LAST PAGE**

Page 2 of 2	<b>Fastenal Product Standard</b>	REV-02
Date: 29 April 2020	<b>FASTENAL</b>	M.HCS.931.10.9.P

**Specification Requirements:**

- Dimensions: DIN 931; For dimensions not shown above, refer to DIN 931
- Threads: 6g per ISO 724; ISO 965-1
- Material & Mechanical Properties: ISO 898-1; Class 10.9
- Head Marking: Manufacturer's ID and 10.9
- Finish: Light Protective Oil
- Material Test Reports: The MTR must have documented lot traceability, dimensional results, full chemical test results and full mechanical test results to the specification(s) above. In addition, the MTR shall be in full compliance with Fastenal's MTR Requirements.
- Quality Assurance Provisions: Category 3 of ASME B18.18

**Revision Level Changes to this Document**

Document Name	Revision Level	Revision Date	Rationale for Revision
M.HCS.931.10.9.P	00	7/9/2018	Revised title.
M.HCS.931.10.9.P	01	2/6/2020	Revised thread specification callout.
M.HCS.931.10.9.P	02	4/29/2020	Revised head height Grade B for sizes M42 and larger.

The rationale above may not include all of the changes within each revision. A complete review of the Fastenal Product Standard is required.