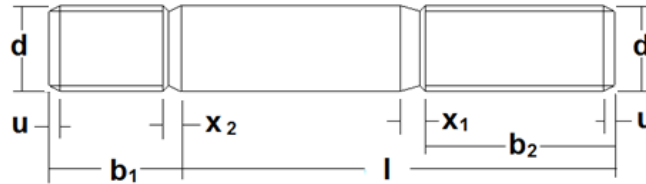


### Metric, Stud, Double End, DIN 939, Class 8.8, Plain

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.



d	b1, tolerance js16	b2, Tolerance +2P			X1	X2
		1, for lengths of 125mm or less	2, for lengths above 125mm up to 200mm	3, for lengths exceeding 200mm		
M4	5	14	20	-	1.75	0.9
M5	6.5	16	22	-	2.0	1.0
M6	7.5	18	24	-	2.5	1.25
M7	9	20	26	-	2.5	1.25
M8	10	22	28	-	3.2	1.6
M10	12	26	32	45	3.8	1.9
M12	15	30	36	49	4.3	2.2
M14	18	34	40	53	5.0	2.5
M16	20	38	44	57	5.0	2.5
M18	22	42	48	61	6.3	3.2
M20	25	46	52	65	6.3	3.2
M22	28	50	56	69	6.3	3.2
M24	30	54	60	73	7.5	3.8
M27	35	62	66	79	7.5	3.8
M30	38	66	72	85	9.0	4.5
M33	42	72	78	91	9.0	4.5
M36	45	78	84	97	10.0	5.0
M39	50	84	90	103	10.0	5.0
M42	52	90	96	109	11.0	5.5
M45	58	96	102	115	11.0	5.5
M48	60	102	108	121	12.5	6.3
M52	65	110	116	129	12.5	6.3

Length tolerances: js15. P is the pitch of thread.

Stud length (l) does not include Tap Length; b1

U = 1.5 P maximum

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

Page 2 of 2	<b>Fastenal Product Standard</b>	REV-00
Date: September 11, 2018	<b><i>FASTENAL</i></b>	M.STD.DE.939.8.8.P

Specification Requirements:

- Dimensions: DIN 939, tolerances per ISO 4759, Grade A.
- Threads: Nut End: 6g  
Stud End: Sk6
- Material & Mechanical Properties: ISO 898-1, Class 8.8
- Marking: Manufacturer's ID and 8.8; per ISO 898-1
- 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.

Revision Level Changes to this Document

Document Name	Revision Level	Revision Date	Rationale for Revision
M.STD.DE.939.8.8.P	00	9/11/2018	Revised title and added stud end thread fit.

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