

FED. SUP CLASS
5305

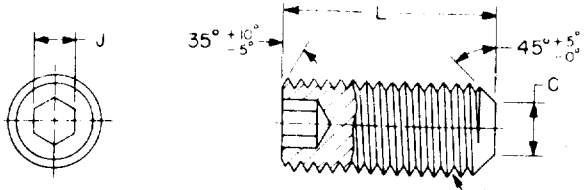


TABLE I

NOMINAL SIZE	.060	.076	.112	.138	.164	.190	.250	.3125	.375	.500							
THREADS PER INCH (UNF-3A)	50	64	48	40	36	32	28	24	24	20							
J SOCKET WIDTH ACROSS FLATS NOM	.028	.035	.050	.062	.078	.094	.125	.156	.188	.250							
C POINT DIAMETER	MAX .033 MIN .027	.047 .039	.061 .051	.074 .064	.087 .076	.102 .088	.132 .118	.172 .156	.212 .194	.291 .270							
L LENGTH	TOL	DASH NUMBER															
		PLAIN	PLAIN	PLAIN	PLAIN	PLAIN	PLAIN	SELF LOCK	PLAIN	SELF LOCK	PLAIN	SELF LOCK	PLAIN	SELF LOCK	PLAIN	SELF LOCK	
.062	±.010	1*	7*	15*	24*	33*	46*	61*									
.125		8*	16*	24*	34*	46*	62										
.188		9*	17*	25*	34*	46*	63										
.250					26*	35*	47*	64	88*	112	69*	125					
.312					27*	36*	48*	65	89*	113	70*	126	50*				
.375						37*	49*	66	90*	114	71*	127	51*	117	90*	147	
.438							49*	67	91*	115*	72*	128	52*	118	91*	148	
.500						38*	50*	68	92*	116*	73*	129	53*	119	92*	149	
.562						39*	51*	69	93*	117*	74*	130	54*	120	93*	150	
.625						40*	52*	70	94*	118	75*	131	55*	121	94*	151	
.750	±.020						72*	110	95*	76*	132						
.875								73*	111	96*	77*	133					
1.000									74*	112	97*	78*	134				
1.250									75*	113	98*	79*	135				
1.500									76*	114	99*	80*	136				
1.750	±.031										134						
2.000											135						
2.500											136						
3.000																	

* Inactive for new design after 29 DEC 1972 (B)

(B) For changes see sheets 1 and 2.

THIS MILITARY STANDARD IS MANDATORILY FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE. SPECIFICATIONS FOR NEW ENGINEERING AND DESIGN PROJECTS, AND FOR REPLACEMENT USE SHALL BE MADE IN ACCORDANCE WITH THIS DOCUMENT.

P.A. WC Other Cust #2	TITLE SETSCREW-HEXAGON SOCKET, FLAT POINT, CORROSION-RESISTING STEEL, PASSIVATED, UNF-3A, PLAIN AND SELF-LOCKING (B)	MILITARY STANDARD MS51031
PROCUREMENT SPECIFICATION FF-S-200	SUPERSEDES MS51032, MS51050, MS51057 and in part MS18066, BCX2.13, BCX1, BCX3 and BCX4.5	SHEET 1 OF 2

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

APPROVED 7 MAY 1958 REVISED (A) 29 JAN 1964 (B) 29 DEC 1972

FED SUP CLASS
5305

NOTES:

1. MATERIAL: Corrosion-Resisting Steel. See notes in accordance with procurement specification.
2. ELECTROLYTIC COATING: Passivated in accordance with QQ-P-35.
3. THREADS: The threads shall be in accordance with MIL-S-7742.
4. MAGNETIC PERMEABILITY: These setscrews have a magnetic permeability of 2.0 max (Air = 1.0) for a field strength of $H = 200$ oersteds, when using a magnetic indicator per MIL-I-17214.
5. DIMENSIONS: All dimensions are in inches, unless otherwise specified.
6. PART NUMBER: The MS part number consists of the Ms number, plus the dash number.
Example: MS51031-102.
7. SELF-LOCKING ELEMENT:
(a) The self-locking element shall be in accordance with MIL-I-18240.
(b) For design and usage limitations, see MS15051.
(c) Location of effective locking area shall be in accordance with MS15051.
(d) Maximum ring gage transfer that locking region of setscrew must pass thru freely or with finger pressure shall be the nominal size plus 0.010.
(e) MIL-I-18240 doesn't establish torque requirement for lengths above the dashed line. Only a positive indication of torque is required.
8. Referenced documents shall be of the issue in effect on date of invitations for bid.
9. For design feature purposes, this standard takes precedence over procurement documents referenced herein.

INTERCHANGEABILITY

Screws covered by the dash numbers given in MS51032 are cancelled after 29 January 1964 and superseded by the screws covered in MS51031 having the same dash numbers. Cancelled screws may be used until existing stocks are depleted. Use only MS51031 screws for new design.

Effective 31 December 1963, MS51056 and MS51057 were cancelled and superseded by MS51031 and MS51032 respectively.

Screws covered by the dash number given in MS5006 in part are cancelled. Cancelled screws may be used until existing stocks are depleted. Use only the superseding screws for new design. Replacement shall be in accordance with Table II.

TABLE II (B)

CANCELLED	SUPERSEDING	CANCELLED	SUPERSEDING	CANCELLED	SUPERSEDING	CANCELLED	SUPERSEDING
MS18066	MS51031	MS18066	MS51031	MS18066	MS51031	MS18066	MS51031
DASH NUMBER		DASH NUMBER		DASH NUMBER		DASH NUMBER	
4	101	02	106	64	131	82	145
5	102	07	111	70	132	85	146
13	103	45	118	74	133	92	147
09	104	50	119	75	134	40	148
25	105	7	120	51	135	53	149
31	106	63	121	54	136	60	150
36	107	69	122	91	137	66	151
14	108	73	123	38	138	72	152
43	109	77	124	52	139	76	153
56	110	75	125	59	140	80	154
05	111	21	126	65	141	83	155
9	112	27	127	71	142	86	156
14	113	38	128	75	143	87	157
20	114	51	129	79	144	88	158
26	115	58	130				

P.A. WC Other Cost #2	TITLE SETScrew-HEXAGON SOCKET, FLAT POINT, CORROSION-RESISTING STEEL, PASSIVATED, UNF-3A, PLAIN AND SELF-LOCKING (B)	MILITARY STANDARD MS51031
PROCUREMENT SPECIFICATION FF-S-200	SUPERSEDES MS51032, MS51056, MS51057 and in part MS18066, BCUX2.13, BCUX1, BCUX3 and BCUX4.5.	SHEET 2 OF 2

This military standard is to be used by all Departments and Agencies of the Department of Defense. No provision for new developing and design activities and for repetitive use shall be made in this document.

REVISIONS: 13, MIL. ST. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

APPROVED 7 MAY 1958 REVISED (A) 29 JAN 1964 (B) FOR CHANGES SEE SHEETS 1 AND 2