

SECTION 11 – COMMON FASTENERS

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**Table 1
SAE/Inch Screws**

Part Number	Size	Description	Part Number	Size	Description
109A2A311N	#10-24 UNC-3A x ¼"	Hex Socket Head (Nylon Insert)	35A2D386	¾"-10 UNC-2A x 4"	Hex Head
119A2A146	¼"-20 UNC-3A x ¼"	Hex Socket Head	35A2D388	¾"-10 UNC-2A x 4 ½"	Hex Head
119A2A148	¼"-20 UNC-3A x 1/8"	Hex Socket Head	35A2D390	¾"-10 UNC-2A x 5"	Hex Head
119A2A198N	1/8"-16 UNC-3A x ¼"	Hex Socket Head (Nylon Insert)	35A2D4	¼"-20 UNC-2A x 7/8"	Hex Head
119A2A206N	¼"-16 UNC-3A x 2"	Hex Socket Head (Nylon Insert)	35A2D5	5/16"-18 UNC-2A x 3"	Hex Head
119A2A251	½"-13 UNC-3A x 1 ¼"	Hex Socket Head	35A2D54	5/16"-18 UNC-2A x ½"	Hex Head
121A2A175	1/8"-16 UNC – 3A x 1"	Hex Socket Head	35A2D57	5/16"-18 UNC-2A x 7/8"	Hex Head
125A2C1012	#310-24 UNC-3A x 1 ¼"	Hex Socket Head	35A2D58	5/16"-18 UNC-2A x 1"	Hex Head
133A2C44	#4-40 UNC – 3A x ½"	Hex Socket Head	35A2D60	5/16"-18 UNC-2A x 1	Hex Head
35A2D110	1/8"-16 UNC-2A x 7/8"	Hex Head	35A2D62	¼"	Hex Head
35A2D111	1/8"-16 UNC-2A x 1"	Hex Head	35A2D64	5/16"-18 UNC-2A x 1	Hex Head
35A2D112	1/8"-16 UNC-2A x 1 1/8"	Hex Head	35A2D7	½"	Hex Head
35A2D113	1/8"-16 UNC-2A x 1 ¼"	Hex Head	35A2D8	5/16"-18 UNC-2A x 2"	Hex Head
35A2D117	1/8"-16 UNC-2A x 2"	Hex Head	35130293	¼"-20 UNC-2A x 1 ¼"	Hex Head
35A2D118	1/8"-16 UNC-2A x 2 ¼"	Hex Head		¼"-20 UNC-2A x 1 3/8"	Self-Tapping
35A2D119	1/8"-16 UNC-2A x 2 ½"	Hex Head	35130301	3/8"-16 x ¾"	Hex Head
35A2D120	1/8"-16 UNC-2A x 2 ¾"	Hex Head			Self-Tapping
35A2D122	1/8"-16 UNC-2A x 3 ¼"	Hex Head	35141365	5/16"-18 x ¾"	Hex Head
35A2D127	1/8"-16 UNC-2A x 4 ½"	Hex Head			Self-Tapping
35A2D131	1/8"-16 UNC-2A x 6"	Hex Head	35144328	5/16"-18 x ½"	Whiz-Lock®
35A2D168	7/16"-14 UNC-2A x 1 ½"	Hex Head	35144336		Whiz-Lock®
35A2D174	7/16"-14 UNC-2A x 3"	Hex Head	35144344	¼"-20 x 5/8"	Whiz-Lock®
35A2D215	½"-13 UNC-2A x ¾"	Hex Head	35144484	5/16"-18 x ¾"	Whiz-Lock®
35A2D216	½"-13 UNC-2A x 7/8"	Hex Head	35145242	3/8"-16 x 1"	Whiz-Lock®
35A2D217	½"-13 UNC-2A x 1"	Hex Head	35148030	¼"-20 x 1"	Hex Head
35A2D219	½"-13 UNC-2A x 1 ¼"	Hex Head		¼"-20 x 1 ¼"	Self-Tapping
35A2D221	½"-13 UNC-2A x 1 ½"	Hex Head	35252451	½"-13 x 1"	Whiz-Lock®
35A2D223	½"-13 UNC-2A x 2"	Hex Head	35252493		Whiz-Lock®
35A2D229	½"-13 UNC-2A x 3 ½"	Hex Head	35252568	¼"-20 x 1"	Whiz-Lock®
35A2D231	½"-13 UNC 2A x 4"	Hex Head	35252741	3/8"-16 x ¾"	Whiz-Lock®
35A2D232	½"-13 UNC-2A x 4 ¼"	Hex Head	35252758	½"-13 x 1 ¼"	Whiz-Lock®
35A2D3	¼"-20 UNC-2A x ¾"	Hex Head	35287119	½"-13 x 1 ½"	Hex Head
35A2D323	5/8"-11 UNC-2A x 1 ¼"	Hex Head		½"-13 x 1"	Self-Tapping
35A2D325	5/8"-11 UNC-2A x 1 ½"	Hex Head	35321108	¼"-14 x ¾"	Whiz-Lock®
35A2D326	5/8"-11 UNC-2A x 1 ¾"	Hex Head	35334879		Hex Head
35A2D327	5/8"-11 UNC-2A x 2"	Hex Head		5/16"-18 x 1"	Self-Tapping
35A2D328	5/8"-11 UNC-2A x 2 ¼"	Hex Head	36A2A275	5/16"-18 x 1"	Hex Head
35A2D329	5/8"-11 UNC 2A x 2 ½"	Hex Head	87A2C93P		Round Head
35A2D330	5/8"-11 UNC 2A x 2 ¾"	Hex Head		5/16"-18 x 2"	Phillips
35A2D331	5/8"-11 UNC 2A x 1 1/3"	Hex Head	95095659	10-24 x 1/8"	Round Head
35A2D380	¾"-10 UNC-2A x 2 ½"	Hex Head		10-24 x ½"	Phillips
35A2D382	¾"-10 UNC-2A x 3"	Hex Head			
35A2D384	¾"-10 UNC-2A x 3 ½"	Hex Head			

Whiz-Lock® is a Registered T.M. of MacLean-Fogg Nut Co.
(Alternate Suppliers are Acceptable for this Part Number)

Part Number	Size	Description	Part Number	Size	Description
16A4C1	1/4"-20 UNC-2B	Hex	11A5C1	#10	Flat (Commercial)
16A4C2	5/16"-18 UNC-2B	Hex	11A5C2	1/4"	Flat (Commercial)
16A4C3	3/4"-16 UNC-2B	Hex	11A5C3	3/16"	Flat (Commercial)
16A4C5	1/2"-13 UNC-2B	Hex	11A5C4	3/8"	Flat (Commercial)
16A4C7	5/8"-11 UNC-2B	Hex	11A5C6	1/2"	Flat (Commercial)
16A4C8	3/4"-10 UNC-2B	Hex	11A5C8	5/8"	Flat (Commercial)
16A4H7	5/8"-11 UNC-2B	Hex	12A5C2	1/4"	Flat (SAE)
21A4C10	12-24 UNC 2B	Hex	12A5C3	5/16"	Flat (SAE)
21A4C5	4-40 UNC-2B	Hex	12A5C4	5/8"	Flat (SAE)
21A4C8	8-32 UNC-2B	Hex	12A5C6	1/2"	Flat (SAE)
21A4C9	10-24 UNC-2B	Hex	12A5C13	1.25"	Flat (SAE)
22A4C1	1/2"-28 UNC-2B	Hex	12A5C15	1.50"	Flat (SAE)
22A4C2	5/16"-24 UNF-2B	Hex	12A5D24	#10	Flat (SAE)
22A4C3	3/8"-24 UNC-2B	Hex	14A5C101	1/2"	Spring Lock
22A4C5	1/2"-20 UNC -2B	Hex	14A5C110	9/16"	Spring Lock
23A4C3	3/8"-24 UNC-2B	Hex	14A5C119	5/8"	Spring Lock
23A4C4	7/16"-20 UNC-2B	Hex	14A5 120	5/8"	Spring Lock
23A4C5	1/2"-20 UNC-2B	Hex	14A5C133	3/4"	Spring Lock
23A4C8	3/4"-16 UNC-2B	Hex	14A5C28	#8	Spring Lock
35144492	1/4"-20	Whiz-Lock®	14A5C36	#10	Spring Lock
35145077	3/8"-16	Whiz-Lock®	14A5C55	1/4"	Spring Lock
35252600	5/16"-18	Whiz-Lock®	14A5C55P	1/4"	Spring Lock, Cadmium Plate
35252618	1/2"-13	Whiz-Lock®	14A5C65	5/16"	Spring Lock
35265388	10-24	Whiz-Lock®	14A5C65P	5/16"	Spring Lock, Cadmium Plate
35321504	5/8"-11	Hex	14A5C76	3/8"	Spring Lock
35326420	1/2"-13	Hex	14A5C9	#4	Spring Lock
35332980	1/2"-13	Hex	14A5C91	7/16"	Spring Lock
35336700	9/16"-18	Torque/Grade 8	35326233	3/8"	Spring Lock
66A4C3	3/8"-24	Nyloc			
66A4C5	1/4"-20	Nyloc			
67A4C1	1/4"-20	Nyloc			
67A4C2	5/16"-18	Nyloc			
67A4C3	3/8"-16	Nyloc			
67A4C5	1/2"-13	Nyloc			

SAE/Inch Capscrews Grade Identification

Grade identification markings are normally stamped on the heads of capscrews, however these marks may vary slightly from manufacturer to manufacturer.				
SAE Grade	1 or 2	5	6 or 7	8
		 	 	
QUALITY OF MATERIAL	MATERIAL INDETERMINATE	MINIMUM COMMERCIAL	MEDIUM COMMERCIAL	BEST COMMERCIAL
USAGE	UNACCEPTABLE	PREFERRED	ALTERNATE IF PREFERRED NOT AVAILABLE	*

*Due to their material and hardness, grade 8 capscrews are not suitable for use on the *pressurized air systems* on an Ingersoll-Rand Portable Air Compressor. On uses other than pressure application, grade 8 capscrews are acceptable.

Table 2

Part Number	ISO/Metric Screws Size (mm)	Description	Part Number	Size (mm)	Description
35271139	M12 x 1.75 x 40	Hex Head, Class 8.8	35330539	M12 x 1.75 x 100	Hex Head, Class 8.8
35271147	M12 x 1.75 c 30	Hex Head, Class 8.8	35353978	M10 x 1.25 x 50	Hex Head, Class 8.8
35271154	M10 x 1.50 x 30	Hex Head, Class 8.8	35356518	M20 x 2.5 x 90	Hex Head, Class 8.8
35271162	M8 x 1.25 x 30	Hex Head, Class 8.8	35358266	M10 x 1.5 x 160	Hex Head, Class 8.8
35271188	M10 x 1.5 x 25	Hex Head, Class 8.8	35358274	M16 x 2.25 x 25	Hex Head, Class 8.8
3527533	M12 x 1.75 x 35	Hex Head, Class 8.8	35361807	M16 x 2.25 x 120	Hex Head, Class 8.8
35272541	M16 x 2.25 x 40	Hex Head, Class 8.8	92304385	M10 x 1.5 x 16	Hex Head, Class 8.8
35273408	M8 x 1.25 x 20	Hex Head, Class 8.8	92304393	M10 x 1.5 x 20	Hex Head, Class 8.8
35273416	M8 x 1.25 x 25	Hex Head, Class 8.8	92304419	M10 x 1.5 x 40	Hex Head, Class 8.8
35273945	M10 x 1.5 x 55	Hex Head, Class 8.8	92304435	M12 x 1.75 x 25	Hex Head, Class 8.8
35275007	M6 x 1 x 25	Hex Head, Class 8.8	92304450	M12 x 1.75 x 50	Hex Head, Class 8.8
35279025	M8 x 1.25 x 20	Self-Tapping	92329309	M10 x 1.5 x 35	Hex Head, Class 8.8
35284678	M8 x 1.25 x 20	Hex Head, Class 8.8	92341239	M20 x 2.5 x 40	Hex Head, Class 8.8
35284793	M8 x 1.25 x 70	Hex Head, Class 8.8	92367663	M16 x 2.25 x 35	Hex Head, Class 8.8
35285584	M12 x 1.75 x 25	Hex Head, Class 12.9	92368687	M6 x 1 x 72	Hex Head, Class 8.8
35287648	M8 x 1.25 x 16	Hex Head, Class 8.8			
35288422	M8 x 1.25 x 80	Hex Head, Class 8.8	Part Number	ISO/Metric Nuts Size (mm)	Description
35291640	M14 x 2 x 40	Hex Head, Class 8.8	35273366	M10 x 1.5	Lock, Nylon Insert
35290113	M16 x 2.25 x 75	Hex Head, Class 8.8	35275023	M8 x 1.25	Lock, Nylon Insert
35295013	M10 x 1.5 x 70	Hex Head, Class 8.8	35304047	M12 x 1.75	Lock, Nylon Insert
35295351	M10 x 1.5 x 25	Hex Head, Class 8.8	35356526	M20 x 2.5	Lock, Nylon Insert
35295484	M12 x 1.75 x 16	Hex Head, Class 8.8	35361815	M16 x 2.0	Lock, Nylon Insert
35295757	M12 x 1.75 x 20	Hex Head, Class 8.8	90103839	M16 x 2.0	Hex
35300623	M16 x 2.25 x 140	Hex Head, Class 8.8	90103854	M12 x 1.75	Hex
35300771	M6 x 1 x 20	Self-Tapping	92304500	M6 x 1	Hex
35301746	M12 x 1.75 x 55	Hex Head, Class 8.8	92304526	M10 x 1.5	Hex
35307818	M6 x 1 x 10	Hex Head, Class 8.8			
35309715	M16 x 2.25 x 25	Hex Head, Class 8.8	Part Number	ISO/Metric Washers Size (mm)	Description
35317106	M6 x 1 x 25	Hex Head, Class 8.8	35317114	6	Flat
35317148	M8 x 1.25 x 60	Hex Head, Class 8.8	92304658	6	Spring Lock
35321520	M16 x 2.25 x 30	Hex Head, Class 8.8	92304674	10	Flat
35322908	M6 x 1 x 20	Hex Head, Class 8.8			
35327550	M8 x 1.25 x 70	Hex Head, Class 8.8			

**ISO/Metric Capscrews
Grade Identification**

Capscrews shall be identified with their property class symbol with the manufacturer's identification symbol at his option. Grade identification markings (8.8, etc.) are normally located at the top of the screw head, or alternatively, on the side of the head, and may either be raised or depressed at option of the manufacturer.

CLASS	4.6	5.8	8.8	9.8	10.9	12.9
SAE EQUIVALENT	EQUIVALENT TO SAE GRADE 1	EQUIVALENT TO SAE GRADE 2	EQUIVALENT TO SAE GRADE 5	APPROXIMATELY 9 PER CENT STRONGER THAN SAE GRADE 5	EQUIVALENT TO SAE GRADE 8	NO EQUIVALENT SAE GRADE
USAGE	UNACCEPTABLE	UNACCEPTABLE	PREFERRED	ALTERNATE IF PREFERRED NOT AVAILABLE	*	*

*Due to the material and hardness, class 10.9 and 12.9 capscrews are not suitable for use on the pressurized air systems on an Ingersoll-Rand Portable Air Compressor. On uses other than pressure applications, class 10.9 and 12.9 capscrews are acceptable.

