

GROUP 18 - STANDARD PARTS

The Standard Parts listed herein are furnished only in carton quantities, and should be ordered in these quantities or multiples thereof.

BALL - STEEL



Plate 18-1

Diameter	Part No.	Ctn. Qty.	Diameter	Part No.	Ctn. Qty.
1/8	115 529	50	3/8	104 920	25
5/32	115 527	50	7/16	104 921	25
3/16	104 916	50	1/2	104 922	10
7/32	104 917	50	9/16	104 923	10
1/4	104 918	50	5/8	104 924	10
5/16	104 919	50	7/8	104 927	5
11/32	119 282	25			

BOLT - HEXAGON HEAD
National Coarse Thread



Plate 18-2

Length	1/4-20		5/16-18		3/8-16		7/16-14		1/2-13		9/16-12	
	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.
1/2	180 016	50			180 116	25	180 139	25	180 166	25		
5/8	180 018	100										
3/4	180 020	50	180 077	25	180 120	25	180 143	25	180 171	25	180 197	10
1	180 022	50	180 079	25	180 122	25	180 145	25	180 173	25	180 199	10
1-1/4	180 024	50	180 081	25	180 124	25	180 147	25	180 175	10	180 201	10
1-1/2	180 034	25	180 083	25	180 126	25	180 149	10	180 177	10	180 207	10
1-3/4	180 042	25	180 085	25	180 128	25	180 151	10			180 212	10
2	180 044	25	180 087	25	180 130	25	180 153	10	180 181	10		
2-1/2	180 048	10	122 077	25	180 134	10	180 157	10				
3	181 078	10	180 113	10	180 138	10	180 160	10	180 190	10	180 236	10
3-1/2			187 147	10	433 105	10	180 162	10			180 238	10
3-3/4	433 052	10			186 284	10						
4			189 298	10	186 285	10	180 165	10	180 194	10		
5							272 406	50				

BOLT - HEXAGON HEAD
National Fine Thread

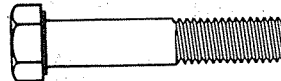


Plate 18-3

Length	1/4-28		5/16-24		3/8-24		7/16-20		1/2-20		9/16-18	
	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.
1/2	181 561	50			181 627	25	181 653	25	181 683	25		
5/8			181 593	25								
3/4			181 595	25	181 635	25			123 593	25		
1	181 568	50	181 608	25	181 637	25	181 666	25	181 696	25		
1-1/4	181 573	50	181 610	25	181 639	25	181 668	25	181 698	10		
1-1/2			181 614	25	181 643	25	181 670	10	181 700	10	181 727	10
1-3/4	181 577	25	181 618	25	181 646	25	181 672	10	660 378	10		
2	181 579	25	181 620	25	181 648	25	181 674	10	181 705	10	181 731	10
2-1/4											181 732	10
2-1/2	181 581	25	181 622	10	181 650	10			181 709	10		
2-3/4			181 623	10								
3			182 703	10	181 652	10	181 678	10	181 711	10	182 807	10
3-1/2			186 304	10	186 310	10	181 680	10	182 788	10	181 743	10
4					189 331	10	181 682	10	181 715	10	181 747	10
4-1/4							187 612	10				

- Indicates bright finish.

* Indicates change or addition.

BUSHING
Pipe Reducing

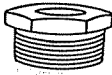


Plate 18-4

Ext. Thd.	Int. Thd.	Part No.	Carton Qty.
1/4	1/8	119 930	5
3/8	1/8	119 923	5
3/8	1/4	119 931	5
1/2	1/8	144 037	5
1/2	1/4	144 051	5
1/2	3/8	144 039	5

CONNECTOR
Flared Tube

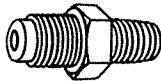


Plate 18-6

Diameter	Taper Thd.	Thread	Part No.	Carton Qty.
1/4	1/8	7/16-20	118 748	5
5/16	1/8	1/2-20	118 749	5
3/8	1/4	5/8-20	118 750	5
7/16	1/4	11/16-16	118 751	5
1/2	3/8	3/4-16	118 752	5

COUPLING - PIPE



Plate 18-8

Diameter & Thread	Part No.	Carton Qty.
1/8 x .96	105 408	5

ELBOW
Ball, Sleeve Tubing



Plate 18-10

Diameter	Taper Thd.	Thread	Part No.	Carton Qty.
1/4	1/8	7/16-24	114 632	10
5/16	1/8	1/2-24	114 633	10
3/8	1/4	9/16-24	140 305	10

ELBOW
Inverted Flared Tube, 45 Degree

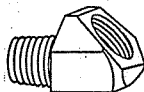


Plate 18-12

Diameter	Taper Thd.	Thread	Part No.	Carton Qty.
3/16	1/8	3/8-24	127 829	5
1/4	1/8	7/16-24	125 859	5
5/16	1/8	1/2-20	116 341	5
3/8	1/4	5/8-18	143 338	5

CONNECTOR
Ball Sleeve Tubing

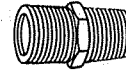


Plate 18-5

Tube Dia.	Taper Thd.	Thd. Size	Part No.	Carton Qty.
3/16	1/8	3/8-24	121 711	10
1/4	1/8	7/16-24	114 626	10
5/16	1/8	1/2-24	114 629	10
3/8	1/4	17/32-24	114 625	5
1/2	3/8	11/16-24	120 129	5

CONNECTOR
Inverted Flared Tube

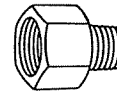


Plate 18-7

Diameter	Taper Thd.	Thread	Part No.	Carton Qty.
1/8	1/8	5/16-28	137 403	5
1/4	1/8	7/16-24	111 345	5
5/16	1/8	1/2-20	137 406	5
3/8	1/4	5/8-18	137 407	5
1/2	3/8	3/4-18	143 426	5

DRAIN COCK



Plate 18-9

Diameter	Part No.	Carton Qty.
1/4	103 647	5

ELBOW
Flared Tube



Plate 18-11

Diameter	Taper Thd.	Thread	Part No.	Carton Qty.
3/16	1/8	3/8-24	121 339	5
1/4	1/8	7/16-20	118 753	5
5/16	1/8	1/2-20	118 754	5
3/8	1/4	5/8-18	118 755	5

ELBOW
Inverted Flared Tube, 90 Degree



Plate 18-13

Diameter	Taper Thd.	Thread	Part No.	Carton Qty.
3/16	1/8	3/8-24	137 420	5
1/4	1/8	7/16-24	137 421	5
1/4	1/4	7/16-24	143 342	5
5/16	1/8	3/8-20	137 422	5
5/16	1/4	1/2-18	143 343	5
3/8	1/4	5/8-18	137 423	5
7/16	1/4	11/16-18	137 424	5
1/2	1/4	188 947	188 947	5

ELBOW
Pipe, 90 Degree



Plate 18-14		
Diameter	Part No.	Carton Qty.
1/8	119 455	5
1/4	105 413	5

FITTING - LUBRICATING



Plate 18-16			
Thread & Length		Part No.	Carton Qty.
1/8 x 1-3/16	67-1/2°	109 365	5
1/8 x 1-13/16	90°	109 357	5

FITTING - LUBRICATING
Straight Drive Base

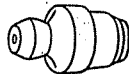


Plate 18-18		
Diameter & Length	Part No.	Carton Qty.
.311 x 5/8	119 516	10

FITTING - LUBRICATING
Straight Type and Threaded Drive Type

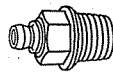


Plate 18-20		
Dia. & Length	Part No.	Carton Qty.
1/8 x 23/32	145 433	10

FITTING - LUBRICATING
Threaded Drive Type

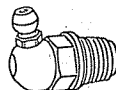


Plate 18-22			
Length		Part No.	Carton Qty.
1	30°	145 434	10
47/64	85°	145 436	10
25/32	67-1/2°	145 435	10

ELBOW
Street, 90 Degree



Plate 18-15		
Diameter	Part No.	Carton Qty.
1/8	127 960	5
1/4	120 499	5

FITTING - LUBRICATING
Ball and Spring Type



Plate 18-17			
Length	Diameter & Thread	Part No.	Carton Qty.
7/8	1/4-28	110 309	10
1	1/4-28	110 308	10

FITTING - LUBRICATING
Straight Type



Plate 18-19		
Thread & Length	Part No.	Carton Qty.
1/8 x 43/64	191 758	10

FITTING - LUBRICATING
Straight Type C

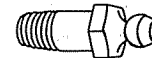


Plate 18-21			
Length	Dia. & Thread 1/4-20	Part No.	Carton Qty.
15/32		187 690	10
1/2		110 347	10
11/16		111 595	10
15/16		125 846	5
1-1/8		128 274	5

GASKET
ANNULAR, TYPE A

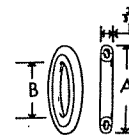


Plate 18-23			
Dim. "A"	Dim. "B"	Part No.	Carton Qty.
1 1/8	.890	105 456	50

- Indicates bright finish.
* Indicates change or addition.

**GASKET
ANNULAR, TYPE C**

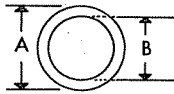


Plate 18-24

Dim. "A"	Dim. "B"	Part No.	Carton Qty.
25/32	.561	150 189	100

**NUT
Flared Tube.**

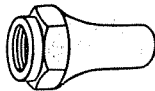


Plate 18-26

Tube Dia.	Thread	Part No.	Carton Qty.
5/16	1/2-20	118 538	5
7/16	11/16-16	118 540	5

NUT - HEXAGON



Plate 18-28

Diameter & Thread	Part No.	Carton Qty.
3/4-16	426 099	10

**NUT - HEXAGON
Lock, Standard, Semi - Finished**



Plate 18-30

Diameter & Thread	Part No.	Carton Qty.
7/16-14	126 012	5

**NUT - HEXAGON
Common**



Plate 18-32

Thread & Length	Part No.	Carton Qty.
No. 4-40	134 524	100
No. 6-32	134 530	100
No. 8-32	120 622	100
No. 10-32	120 614	100
No. 10-24	120 361	100
No. 12-24	121 743	100

NIPPLE - PIPE



Plate 18-25

Dia. & Length	Part No.	Carton Qty.
1/8 x 1	137 536	10
1/4 x 1-1/2	144 596	5

NUT - HEXAGON



Plate 18-27

Diameter & Thread	Part No.	Carton Qty.
3/4-16	219 753	10

**NUT - HEXAGON
Lock, Thin, Semi - Finished**



Plate 18-29

Diameter & Thread	Part No.	Carton Qty.
5/8-18	145 013	10

**NUT - HEXAGON
Ball Sleeve Tubing**



Plate 18-31

Tube Dia.	Thread	Part No.	Carton Qty.
3/16	3/8-24	120 487	10
1/4	7/16-24	114 627	10
5/16	1/2-24	114 630	10
3/8	9/16-24	140 287	10
3/8	17/32-24	114 623	10
1/2	11/16-20	120 131	5
3/4	1-28	144 409	5

**NUT - HEXAGON
Slotted, Standard Semi - Finished**



Plate 18-33

Diameter & Thread	Part No.	Carton Qty.
1/4-28	125 215	50
3/8-24	125 233	50
7/16-20	128 014	50
1/2-20	125 250	50
9/16-18	102 648	25
5/8-18	125 267	25

NUT - HEXAGON

Standard, Semi-Finished National Coarse Thread



Plate 18-34

Diameter & Thread	Part No.	Carton Qty.
1/4-20	120 375	50
5/16-18	120 376	50
3/8-16	120 377	50
7/16-14	271 501	50
1/2-13	120 378	50
9/16-12	124 583	25
5/8-11	124 589	25

NUT

Inverted Flared Tube



Plate 18-36

Tube Dia.	Thread	Part No.	Carton Qty.
1/8	5/16-24	137 395	25
3/16	3/8-24	137 396	25
1/4	7/16-24	137 397	25
5/16	1/2-20	137 398	25
3/8	5/8-18	137 399	25

PIN - COTTER
Split

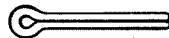


Plate 18-38

Length	Diameter	Part No.	Carton Qty.
1/2	3/64	114 856	100
1/2	5/32	103 394	100
3/4	3/32	103 373	100
7/8	1/8	108 630	100
1	1/16	103 363	100
1	5/32	103 396	100
1-1/8	3/32	108 636	100
1-3/8	1/16	108 640	100
1-5/8	1/8	119 209	100
1-5/8	5/32	119 210	100
1-5/8	3/16	137 254	100
1-3/4	1/8	190 381	50
1-3/4	5/32	103 399	100
1-3/4	7/32	108 561	50
2-1/4	1/8	103 390	100
2-1/2	3/32	103 380	100
2-3/4	5/32	103 403	50
3	1/8	103 393	50
3	3/16	103 415	50
3	7/32	137 298	50

PIN

Straight, Grooved

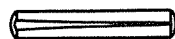


Plate 18-40

Diameter	Length	Part No.	Carton Qty.
5/32	1-1/8	136 301	25
1/4	1	142 520	10

NUT - HEXAGON

Standard, Semi-Finished National Fine Thread



Plate 18-35

Diameter & Thread	Part No.	Carton Qty.
1/4-28	120 367	50
5/16-24	120 368	50
3/8-24	114 547	25
3/8-24	120 369	50
7/16-20	271 506	50
1/2-20	120 371	50
9/16-18	124 634	25
5/8-18	121 358	25

NUT - HEXAGON

Tri-Slot, Semi-Finished



Plate 18-37

Diameter & Thread	Part No.	Carton Qty.
3/4-16	128 180	5

PIN - DOWEL

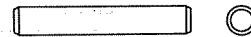


Plate 18-39

Diameter	Length	Part No.	Carton Qty.
1/4	2-1/4	141 210	10
5/16	2-1/4	141 232	10

PLUG - BUTTON



Plate 18-41

Dim. "A"	Dim. "B"	Part No.	Carton Qty.
1	19/64	142 091	10

- Indicates bright finish.

* Indicates change or addition.

PLUG - EXPANSION



Plate 18-42					
Diameter	Part No.	Carton Qty.	Diameter	Part No.	Carton Qty.
1/4	106 959	25	1-1/8	106 517	10
3/8	103 889	25	1-3/16	140 690	10
7/16	117 917	25	1-3/16	117 921	10
1/2	103 890	25	1-1/4	179 380	10
9/16	117 918	25	1-3/8	117 923	10
5/8	103 891	25	1-7/16	105 603	10
11/16	117 612	25	1-1/2	103 896	10
3/4	103 892	25	1-5/8	117 924	10
13/16	105 602	25	1-5/8	140 802	10
7/8	103 893	25	1-3/4	103 897	10
15/16	117 919	25	1-7/8	114 564	10
1	103 894	25	2	140 089	10
1-1/16	117 920	10	2-1/4	113 537	10
			2-1/2	103 899	10

PLUG - PIPE
Countersunk Headless



Plate 18-43		
Diameter & Thread	Part No.	Carton Qty.
1/2 - 14	103 874	5
3/8 - 18	143 162	10
3/4 - 14	103 875	5

PLUG - PIPE
Slotted Headless



Plate 18-45		
Diameter & Thread	Part No.	Carton Qty.
1/8 - 27	118 831	10
1/4 - 18	113 935	10
3/8 - 18	115 711	10

PLUG - PIPE
Square Head, Solid



Plate 18-47		
Diameter & Thread	Part No.	Carton Qty.
1/8 - 27	143 932	25
1/4 - 18	143 933	25

PLUG - PIPE
Hexagon Head



Plate 18-44		
Diameter & Thread	Part No.	Carton Qty.
1/4 - 18	127 951	10

PLUG - PIPE
Square Head, Hollow

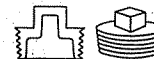


Plate 18-46		
Diameter & Thread	Part No.	Carton Qty.
3/8 - 18	112 304	5
1/2 - 14	103 868	10
3/4 - 14	103 869	5
1 - 11 1/2	103 870	5
1 1/4 - 11 1/2	106 642	5

RING

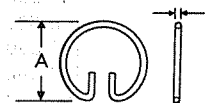


Plate 18-48			
Dim. "A"	Dim. "B"	Part No.	Carton Qty.
.990	.0605	200 434	25

- Indicates bright finish.
* Indicates change or addition.

RIVET - TUBULAR
Flat Head, Countersunk

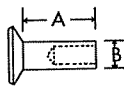


Plate 18-49

Dim. "A"	Dim. "B"	Part No.	Carton Qty.
9/32	9/64	121 573	100
13/32	3/16	114 518	100

RIVET
Split, Oval Head



Plate 18-51

Diameter	Length	Part No.	Carton Qty.
9/64	7/16	113 194	100

SCREW - TAPPING
Cross Recess, National Coarse Thread

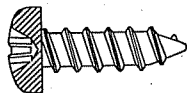


Plate 18-53

Diameter & Thread	Length	Part No.	Carton Qty.
No. 14-10	3/4	162 077	100

SCREW - FILLISTER HEAD
Cross Recess, National Fine Thread



Plate 18-55

Length	Diameter and Thread			
	No. 6-32		No. 10-32	
	Part No.	Carton Qty.	Part No.	Carton Qty.
7/16	153 011	100		
1/2			153 421	100
1-1/2			153 479	50

SCREW - FLAT HEAD
Cross Recess, National Coarse Thread



Plate 18-57

Length	Diameter & Thread															
	No. 4-40		No. 6-32		No. 8-32		No. 10-24		No. 12-24		1/4-20		5/16-18		3/8-16	
	Part No.	Ctn. Qty.	Part No.	Ctn. Qty.	Part No.	Ctn. Qty.	Part No.	Ctn. Qty.	Part No.	Ctn. Qty.	Part No.	Ctn. Qty.	Part No.	Ctn. Qty.	Part No.	Ctn. Qty.
3/16						▲ 155 864	100									
1/4	155 815	100	155 830	100												
5/16	▲ 155 821	100	155 835	100	▲ 155 873	100										
3/8	188 333	100	157 884	100												
7/16							▲ 155 934	100								
1/2					155 886	100			156 094	100						
5/8											▲ 156 250	100				
3/4			155 857	100									156 466	100	156 549	50
1							155 954	100	▲ 156 132	100						
1-1/2									▲ 156 146	50						

Printed in U.S.A.
▲ - Indicates bright finish.
* Indicates change or addition.

RIVET
Solid, Round Head

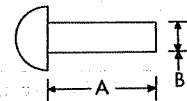


Plate 18-50

Dim. "A"	Dim. "B"	Part No.	Carton Qty.
5/8	3/16	104 068	100

RIVET - TUBULAR
Oval Head, Drilled

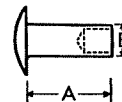


Plate 18-52

Dim. "A"	Dim. "B"	Part No.	Carton Qty.
9/64"	1/4"	118 140	100
3/16"	3/32"	131 284	100

SCREW - FILLISTER HEAD
Cross Recess, National Coarse Thread



Plate 18-54

Length	Diameter & Thread			
	No. 10-24		5/16-18	
	Part No.	Carton Qty.	Part No.	Carton Qty.
7/16	153 241	100		
3/4			▲ 153 966	50
7/8			▲ 153 981	50
1-1/4			▲ 154 002	50

SCREW
Fillister Head, Slotted

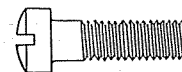


Plate 18-56

Diameter & Thread	Length	Part No.	Carton Qty.
1/4-20	2 1/2	132 300	100

SCREW - FLAT HEAD
Cross Recess, National Fine Thread

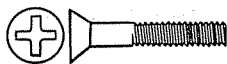


Plate 18-58

Length	Diameter and Thread			
	No. 10-32		5/16-24	
	Part No.	Carton Qty.	Part No.	Carton Qty.
1/2	156 009	100		
1	156 033	100	178 837	50

SCREW - OVAL HEAD
Cross Recess, National Coarse Thread

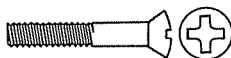


Plate 18-59

Length	Diameter & Thread											
	No. 6-32		No. 8-32		No. 10-24		No. 12-24		1/4-20		5/16-18	
	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.
1/4			▲ 156 746	50								
5/16	442 654	50	156 750	100								
3/8	156 646	100			▲ 156 953	100						
7/16					▲ 156 960	100						
1/2	▲ 156 655	50	▲ 156 771	50	156 963	100	157 277	100	157 391	100		
5/8			▲ 147 762	50	▲ 148 109	100	157 285	100	157 399	100	▲ 157 521	50
3/4							157 296	100				
3/4			186 575	10			▲ 157 297	100	▲ 157 402	100		
7/8					156 972	100			▲ 148 035	100		
1							157 321	100	157 444	100		
1-1/8												
1-1/2			▲ 156 831	50								
1-3/4											157 571	50

SCREW - OVAL HEAD
Cross Recess, National Fine Thread



Plate 18-60

Length	Diameter and Thread			
	No. 10-32		1/4-28	
	Part No.	Carton Qty.	Part No.	Carton Qty.
1/2	157 070	100		
5/8	188 026	50		
3/4	▲ 147 721	100		
7/8			187 981	50

SCREW - ROUND HEAD
Cross Recess, National Coarse Thread

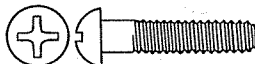


Plate 18-61

Length	Diameter & Thread											
	No. 4-40		No. 6-32		No. 8-32		No. 10-24		No. 12-24		1/4-20	
	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.	Part No.	Carton Qty.
1/4	154 921	100	154 959	100								
5/16	154 926	100			155 028	100						
3/8									155 258	100		
1/2			154 987	100	155 043	100	155 113	100				
3/4									155 278	100	155 348	100
1					188 764	25			155 288	100	▲ 147 766	50

SCREW - ROUND HEAD

Cross Recess, National Fine Thread

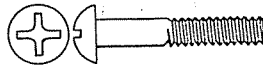


Plate 18-62

Diameter and Thread
No. 10-32

Length	Part No.	Carton Qty.
5/16	155 178	100
1/2	155 194	100
3	*155 032	100

STUD

Plate 18-64

Stud End Dia. & Thread	Nut End Dia. & Thread	Length	Part No.	Ctn. Qty.
3/8-16	3/8-24	3-5/16	103 203	5
3/8-16	3/8-24	5-13/16	111 647	5

WASHER - LOCK

Plate 18-66

Bolt Size	Part No.	Carton Qty.
1/4	120 380	100
5/16	120 214	100
3/8	120 382	100
7/16	120 383	100
1/2	120 384	100
9/16	120 898	50
5/8	121 574	50

SLEEVE
Ball Sleeve Tubing

Plate 18-63

Diameter	Part No.	Carton Qty.
1/8	121 322	25
3/16	120 488	25
1/4	114 628	25
5/16	114 631	25
3/8	114 624	25
3/4	125 654	10

WASHER - LOCK
Countersunk, External Tooth

Plate 18-65

Bolt Size	I. D.	Part No.	Ctn. Qty.
3/8	.398	138 617	100

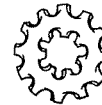
WASHER - LOCK
External and Internal Teeth

Plate 18-67

Bolt Size	Part No.	Carton Qty.
1/4	174 916	50
5/16	178 532	50
3/8	178 551	50
7/16	178 571	50
1/2	178 591	25
9/16	178 612	25
5/8	178 632	25

WASHER - LOCK
External Teeth



Plate 18-68

Bolt Size	Part No.	Carton Qty.
1/4	121 753	100
5/16	138 485	100
3/8	138 489	100
7/16	136 857	50
1/2	135 629	100
9/16	138 498	50
5/8	138 502	50

WASHER - PLAIN
Large



Plate 18-69

Bolt Size	Part No.	Carton Qty.
1/4	147 697	100
5/16	120 387	100
3/8	128 051	50
1/2	120 390	50

WASHER - PLAIN
Small



Plate 18-70

Bolt Size	Part No.	Carton Qty.
No. 10	120 391	100
1/4	120 392	100
5/16	120 387	100
3/8	120 394	100
7/16	120 395	100
1/2	120 396	50
9/16	121 458	50
5/8	131 016	50

NOTES