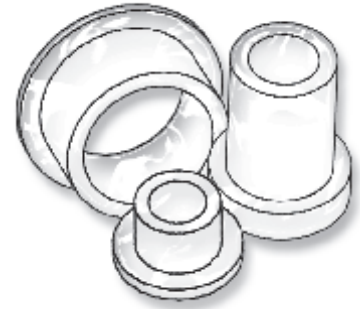


WASHERS, SHOULDER WASHERS & SCREW INSULATORS

SECTION IV

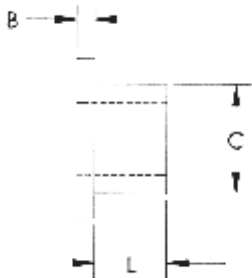
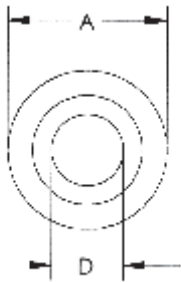
NYLON SHOULDER WASHERS

Nylon Shoulder Washers are suitable for a large variety of insulation and mechanical applications.



- ▶ THEY SEAL
- ▶ REDUCE VIBRATION
- ▶ ACT AS SPACERS AND GUIDES
- ▶ STRONG AND CORROSION RESISTANT

ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS0152	SWS 152	3/64 (1,19)	.105 (2,67)	3/64 (1,19)	.084 (2,13)	.061 (1,55)
12SWS0155	SWS 155	.060 (1,52)	.125 (3,18)	.030 (0,76)	.080 (2,03)	.055 (1,40)
12SWS0156	SWS 156	1/32 (0,79)	.228 (5,79)	1/32 (0,79)	.122 (3,10)	.093 (2,36)
12SWS0157	SWS 157	.035 (0,89)	.235 (5,97)	.095 (2,41)	.147 (3,73)	.115 (2,92)
12SWS0158	SWS 158	.250 (6,35)	.187 (4,75)	.047 (1,19)	.120 (3,05)	.090 (2,29)
12SWS0159	SWS 159	.206 (5,28)	.187 (4,75)	.156 (3,96)	.156 (3,96)	.096 (2,44)
12SWS0180	SWS 180	.075 (1,91)	.181 (4,60)	3/64 (1,19)	.120 (3,05)	.045 (1,14)
12SWS0183	SWS 183	1/32 (0,79)	.182 (4,62)	5/64 (1,98)	.125 (3,18)	.085 (2,16)
12SWS0184	SWS 184	1/32 (0,79)	.189 (4,80)	1/16 (1,59)	.119 (3,02)	.095 (2,41)
12SWS0185	SWS 185	.106 (2,69)	.433 (10,10)	.161 (4,09)	.259 (6,58)	.197 (5,00)
12SWS0186	SWS 186	.088 (2,24)	.228 (5,79)	.039 (0,99)	.140 (3,56)	.098 (2,49)
12SWS0187	SWS 187	1/64 (0,41)	.187 (4,75)	1/32 (0,79)	.119 (3,02)	.089 (2,26)
12SWS0188	SWS 188	.030 (0,76)	.187 (4,75)	.030 (0,76)	.131 (3,33)	.090 (2,29)
12SWS0189	SWS 189	.020 (0,51)	.187 (4,75)	.030 (0,76)	.119 (3,02)	.090 (2,29)
12SWS0190	SWS 190	9/32 (7,14)	.197 (5,00)	1/32 (0,79)	.118 (3,00)	.075 (1,91)
12SWS0191	SWS 191	.100 (2,54)	.350 (8,89)	.090 (2,29)	.200 (5,08)	.140 (3,56)
12SWS0192	SWS 192	.052 (1,32)	.253 (6,43)	.047 (1,19)	.136 (3,45)	.120 (3,05)
12SWS0193	SWS 193	.040 (1,02)	.250 (6,35)	.031 (0,79)	.140 (3,56)	.093 (2,36)
12SWS0194	SWS 194	.046 (1,17)	.197 (5,00)	.027 (0,69)	.144 (3,66)	.118 (3,00)
12SWS0195	SWS 195	1/16 (1,59)	.195 (4,95)	1/32 (0,79)	.120 (3,05)	.093 (2,36)
12SWS0196	SWS 196	3/64 (1,19)	.240 (6,09)	1/16 (1,59)	.135 (3,42)	.114 (2,89)
12SWS0197	SWS 197	1/32 (0,79)	.216 (5,48)	3/64 (1,19)	.135 (3,42)	.115 (2,92)
12SWS0198	SWS 198	1/32 (0,79)	.200 (5,08)	1/32 (0,79)	.140 (3,56)	.115 (2,92)
12SWS0199	SWS 199	5/64 (1,98)	.187 (4,75)	1/32 (0,79)	.119 (3,02)	.063 (1,60)
12SWS0200	SWS 200	1/32 (0,79)	.200 (5,08)	5/64 (1,98)	.135 (3,43)	.116 (2,95)
12SWS0201	SWS 201	3/16 (4,76)	.187 (4,75)	1/32 (0,79)	.119 (3,02)	.063 (1,60)
12SWS0202	SWS 202	5/64 (1,98)	.205 (5,21)	1/32 (0,79)	.125 (3,18)	.093 (2,36)
12SWS0203	SWS 203	7/64 (2,77)	.205 (5,21)	1/32 (0,79)	.125 (3,18)	.093 (2,36)
12SWS0204	SWS 204	3/16 (4,76)	.205 (5,21)	1/32 (0,79)	.125 (3,18)	.093 (2,36)
12SWS0205	SWS 205	3/64 (1,19)	.202 (5,13)	1/64 (0,41)	.145 (3,68)	.120 (3,05)
12SWS0206	SWS 206	1/16 (1,59)	.224 (5,69)	1/32 (0,79)	.154 (3,91)	.120 (3,05)
12SWS0207	SWS 207	5/32 (3,97)	.242 (6,15)	3/64 (1,19)	.135 (3,43)	.110 (2,79)
12SWS0208	SWS 208	1/16 (1,59)	.200 (5,08)	1/32 (0,79)	.120 (3,05)	.093 (2,36)
12SWS0209	SWS 209	3/64 (1,19)	.210 (5,33)	1/64 (0,41)	.145 (3,68)	.120 (3,05)
12SWS0210	SWS 210	3/64 (1,19)	.230 (5,84)	1/64 (0,41)	.142 (3,61)	.122 (3,10)
12SWS0211	SWS 211	1/32 (0,79)	.218 (5,54)	3/64 (1,19)	.135 (3,43)	.115 (2,92)
12SWS0212	SWS 212	7/16 (11,11)	.224 (5,69)	1/32 (0,79)	.154 (3,91)	.120 (3,05)
12SWS0213	SWS 213	3/64 (1,19)	.200 (5,08)	1/32 (0,79)	.138 (3,51)	.109 (2,77)
12SWS0214	SWS 214	1/32 (0,79)	.235 (5,97)	3/64 (1,19)	.137 (3,48)	.115 (2,77)
12SWS0215	SWS 215	7/32 (5,55)	.250 (6,35)	11/64 (4,37)	.150 (3,81)	.115 (2,92)
12SWS0216	SWS 216	1/32 (0,79)	.240 (6,10)	1/32 (0,79)	.150 (3,81)	.098 (2,49)
12SWS0217	SWS 217	1/32 (0,79)	.228 (5,79)	3/64 (1,19)	.138 (3,51)	.100 (2,54)
12SWS0218	SWS 218	1/8 (3,18)	.242 (6,15)	3/64 (1,19)	.140 (3,56)	.115 (2,92)
12SWS0219	SWS 219	1/8 (3,18)	.290 (7,37)	1/64 (0,41)	.250 (6,35)	.193 (4,90)
12SWS0220	SWS 220	3/64 (1,19)	.234 (5,94)	3/64 (1,19)	.147 (3,73)	.115 (2,92)

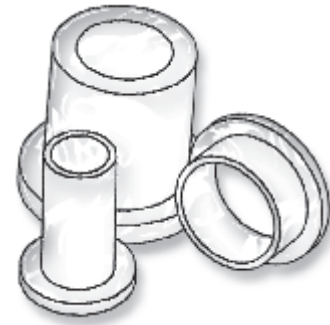


NYLON SHOULDER WASHERS

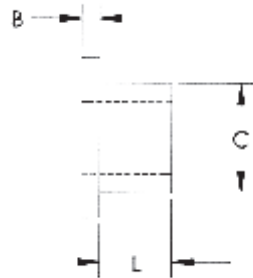
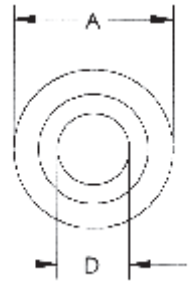
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New Sizes



ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS0221	SWS 221	3/32 (2,38)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0222	SWS 222	1/8 (3,18)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0223	SWS 223	1/32 (0,79)	.250 (6,35)	1/16 (1,59)	.187 (4,75)	.140 (3,56)
12SWS0224	SWS 224	3/64 (1,19)	.260 (6,60)	1/16 (1,59)	.190 (4,83)	.140 (3,56)
12SWS0225	SWS 225	43/64 (17,02)	.250 (6,35)	3/64 (1,19)	.187 (4,75)	.095 (2,41)
12SWS0226	SWS 226	1/16 (1,59)	.250 (6,35)	1/32 (0,79)	.143 (3,63)	.118 (3,00)
12SWS0227	SWS 227	1/32 (0,79)	.257 (6,53)	1/16 (1,59)	.187 (4,75)	.141 (3,58)
12SWS0228	SWS 228	1/64 (0,41)	.260 (6,60)	1/64 (0,41)	.154 (3,91)	.095 (2,41)
12SWS0229	SWS 229	1/8 (3,18)	.250 (6,35)	3/64 (1,19)	.139 (3,53)	.118 (3,00)
12SWS0230	SWS 230	5/32 (3,97)	.265 (6,73)	1/32 (0,79)	.205 (5,21)	.142 (3,61)
12SWS0232	SWS 232	5/64 (1,98)	.253 (6,42)	3/64 (1,19)	.136 (3,45)	.120 (3,05)
12SWS0233	SWS 233	1/32 (0,79)	.203 (5,16)	3/64 (1,19)	.140 (3,56)	.115 (2,92)
12SWS0234	SWS 234	.050 (1,40)	.239 (6,07)	.020 (0,51)	.139 (3,53)	.116 (2,95)
12SWS0235	SWS 235	.033 (0,84)	.210 (5,33)	.042 (1,07)	.143 (3,63)	.116 (2,95)
12SWS0236	SWS 236	.020 (0,51)	.250 (6,35)	.030 (0,76)	.150 (3,81)	.116 (2,96)
12SWS0237	SWS 237	.040 (1,02)	.235 (5,97)	.047 (1,19)	.147 (3,73)	.115 (2,92)
12SWS0238	SWS 238	.030 (0,76)	.230 (5,84)	.040 (1,02)	.150 (3,81)	.125 (3,18)
12SWS0239	SWS 239	.090 (2,29)	.224 (5,69)	.028 (0,71)	.154 (3,91)	.120 (3,05)
12SWS0240	SWS 240	.100 (2,54)	.230 (5,84)	.025 (0,64)	.190 (4,83)	.150 (3,81)
12SWS0241	SWS 241	.155 (3,94)	.224 (5,69)	.028 (0,71)	.154 (3,91)	.120 (3,05)
12SWS0242	SWS 242	3/32 (2,38)	.635 (16,13)	9/64 (3,57)	.425 (10,80)	.201 (5,11)
12SWS0243	SWS 243	.063 (1,60)	15/64 (5,94)	.025 (0,64)	.164 (4,17)	.130 (3,30)
12SWS0244	SWS 244	.031 (0,79)	.234 (5,94)	.025 (0,64)	.145 (3,68)	.115 (2,92)
12SWS0245	SWS 245	.093 (2,36)	.235 (5,97)	.250 (6,35)	.145 (3,68)	.115 (2,92)
12SWS0246	SWS 246	.027 (0,69)	.240 (6,10)	.047 (1,19)	.134 (3,40)	.115 (2,92)
12SWS0247	SWS 247	3/64 (1,19)	.252 (6,40)	3/64 (1,19)	.140 (3,56)	.115 (2,92)
12SWS0248	SWS 248	.090 (2,29)	.290 (7,37)	.060 (1,52)	.205 (5,21)	.125 (3,18)
12SWS0249	SWS 249	.177 (4,50)	.244 (6,20)	.040 (1,02)	.157 (3,99)	.118 (3,00)
12SWS0250	SWS 250	.156 (3,96)	.265 (6,73)	.118 (3,00)	.205 (5,21)	.142 (3,61)
12SWS0251	SWS 251	.031 (0,79)	.250 (6,35)	.031 (0,79)	.154 (3,91)	.093 (2,36)
12SWS0252	SWS 252	3/64 (1,19)	.240 (6,10)	.130 (3,30)	.138 (3,51)	.114 (2,90)
12SWS0253	SWS 253	.052 (1,32)	.200 (5,08)	.078 (1,98)	.135 (3,43)	.120 (3,05)
12SWS0254	SWS 254	.281 (7,13)	.203 (5,16)	.040 (1,02)	.156 (3,96)	.100 (2,54)
12SWS0255	SWS 255	1/8 (2,94)	.500 (12,70)	1/8 (2,94)	.375 (9,53)	.285 (7,14)
12SWS0256	SWS 256	.100 (2,54)	.243 (6,17)	.060 (1,52)	.199 (5,05)	.125 (3,18)
12SWS0280	SWS 280	.185 (4,70)	.280 (7,11)	.042 (1,07)	.150 (3,81)	.112 (2,84)
12SWS0290	SWS 290	1/32 (0,79)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)
12SWS0291	SWS 291	.375 (9,53)	.290 (7,37)	.234 (5,94)	.170 (4,32)	.140 (3,56)
12SWS0296	SWS 296	.375 (9,53)	.499 (12,67)	.125 (3,18)	.295 (7,49)	.187 (4,75)
12SWS0300	SWS 300	.090 (2,29)	.250 (6,35)	.050 (1,27)	.150 (3,81)	.120 (3,05)
12SWS0301	SWS 301	.065 (1,65)	.250 (6,35)	.030 (0,76)	.140 (3,56)	.098 (2,49)
12SWS0302	SWS 302	.039 (0,99)	.210 (5,33)	.032 (0,81)	.141 (3,58)	.118 (3,00)
12SWS0304	SWS 304	.453 (11,51)	.256 (6,50)	.055 (1,40)	.173 (4,39)	.118 (3,00)
12SWS0305	SWS 305	.120 (3,05)	.250 (6,35)	.050 (1,27)	.135 (3,43)	.118 (3,00)
12SWS0306	SWS 306	.062 (1,57)	.250 (6,35)	.031 (0,79)	.150 (3,81)	.116 (2,95)



WASHERS, SHOULDER WASHERS & SCREW INSULATORS

SECTION IV

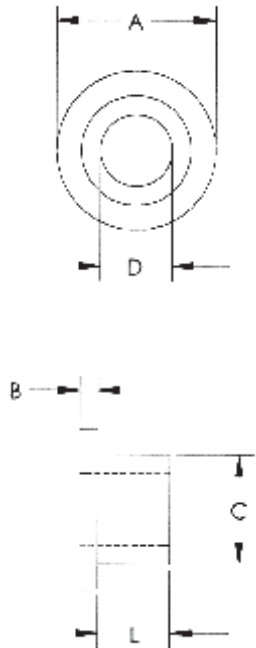
NYLON SHOULDER WASHERS

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New Sizes



ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS0310	SWS 310	.250 (6,35)	.250 (6,35)	.047 (1,19)	.156 (3,96)	.125 (3,18)
12SWS0311	SWS 311	.437 (11,10)	.260 (6,60)	.032 (0,81)	.158 (4,01)	.125 (3,18)
12SWS0312	SWS 312	.190 (4,83)	.575 (14,61)	.030 (0,76)	.365 (9,27)	.312 (7,92)
12SWS0364	SWS 364	.453 (11,51)	.364 (9,24)	.055 (1,40)	.244 (6,20)	.197 (5,00)
12SWS0380	SWS 380	.070 (1,78)	.255 (6,48)	.040 (1,02)	.145 (3,68)	.120 (3,05)
12SWS0393	SWS 393	.380 (9,65)	.400 (10,16)	.032 (0,81)	.200 (5,08)	.132 (3,35)
12SWS0394	SWS 394	.226 (5,74)	.276 (7,01)	.030 (0,76)	.236 (5,99)	.177 (4,50)
12SWS0395	SWS 395	.025 (0,64)	.250 (6,35)	.031 (0,79)	.122 (3,10)	.093 (2,36)
12SWS0396	SWS 396	.040 (1,02)	.250 (6,35)	.047 (1,19)	.140 (3,56)	.102 (2,59)
12SWS0397	SWS 397	.032 (0,81)	.250 (6,35)	.063 (1,60)	.150 (3,81)	.116 (2,95)
12SWS0398	SWS 398	.296 (7,52)	.290 (7,37)	.047 (1,19)	.170 (4,32)	.140 (3,56)
12SWS0399	SWS 399	.050 (1,27)	.250 (6,35)	.031 (0,79)	.185 (4,70)	.120 (3,02)
12SWS0400	SWS 400	3/32 (2,38)	.235 (5,97)	3/64 (1,19)	.140 (3,56)	.115 (2,92)
12SWS0401	SWS 401	1/4 (6,35)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0402	SWS 402	3/64 (1,19)	.240 (6,09)	1/16 (1,59)	.138 (3,50)	.114 (2,89)
12SWS0403	SWS 403	1/16 (1,59)	.312 (7,93)	1/16 (1,59)	.149 (3,79)	.115 (2,92)
12SWS0404	SWS 404	3/32 (2,38)	.312 (7,93)	1/16 (1,59)	.149 (3,79)	.115 (2,92)
12SWS0405	SWS 405	1/64 (0,41)	.250 (6,35)	3/64 (1,19)	.124 (3,15)	.111 (2,82)
12SWS0406	SWS 406	1/32 (0,79)	.252 (6,40)	1/32 (0,79)	.186 (4,72)	.140 (3,56)
12SWS0407	SWS 407	1/32 (0,79)	.250 (6,35)	1/32 (0,79)	.186 (4,72)	.139 (3,53)
12SWS0408	SWS 408	.250 (6,35)	.235 (5,97)	.032 (0,81)	.120 (3,05)	.090 (2,29)
12SWS0409	SWS 409	1/8 (3,18)	.250 (6,35)	1/32 (0,79)	.195 (4,95)	.130 (3,30)
12SWS0410	SWS 410	1/32 (0,79)	.250 (6,35)	3/64 (1,19)	.114 (2,90)	.100 (2,54)
12SWS0411	SWS 411	1/16 (1,59)	.250 (6,35)	1/32 (0,79)	.143 (3,63)	.115 (2,92)
12SWS0412	SWS 412	1/16 (1,59)	.250 (6,35)	1/32 (0,79)	.169 (4,29)	.102 (2,59)
12SWS0413	SWS 413	3/32 (2,38)	.250 (6,35)	3/64 (1,19)	.114 (2,90)	.100 (2,54)
12SWS0414	SWS 414	1/8 (3,18)	.281 (7,14)	3/32 (2,38)	.158 (4,01)	.093 (2,36)
12SWS0415	SWS 415	3/16 (4,76)	.293 (7,44)	3/64 (1,19)	.218 (5,53)	.138 (3,51)
12SWS0416	SWS 416	11/64 (4,37)	.250 (6,35)	3/64 (1,19)	.186 (4,72)	.126 (3,20)
12SWS0417	SWS 417	1/64 (0,41)	.310 (7,87)	1/16 (1,59)	.183 (4,65)	.139 (3,53)
12SWS0418	SWS 418	1/64 (0,41)	.312 (7,93)	1/16 (1,59)	.187 (4,75)	.115 (2,92)
12SWS0419	SWS 419	1/32 (0,79)	.312 (7,93)	1/32 (0,79)	.185 (4,70)	.140 (3,56)
12SWS0420	SWS 420	1/16 (1,59)	.312 (7,93)	1/16 (1,59)	.170 (4,32)	.120 (3,05)
12SWS0421	SWS 421	3/64 (1,19)	.312 (7,93)	1/16 (1,59)	.170 (4,32)	.127 (3,23)
12SWS0422	SWS 422	1/8 (3,18)	.312 (7,93)	3/64 (1,19)	.234 (5,94)	.144 (3,66)
12SWS0423	SWS 423	1/64 (0,41)	.250 (6,35)	1/32 (0,79)	.150 (3,81)	.116 (2,95)
12SWS0424	SWS 424	7/32 (5,55)	.295 (7,49)	1/32 (0,79)	.234 (5,94)	.140 (3,56)
12SWS0425	SWS 425	1/32 (0,79)	.312 (7,93)	1/16 (1,59)	.250 (6,35)	.196 (4,98)
12SWS0426	SWS 426	11/64 (4,37)	.250 (6,35)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0427	SWS 427	3/64 (1,19)	.250 (6,35)	1/32 (0,79)	.185 (4,70)	.116 (2,95)
12SWS0428	SWS 428	7/64 (2,77)	.242 (6,15)	3/64 (1,19)	.140 (3,56)	.115 (2,92)
12SWS0429	SWS 429	9/64 (3,58)	.250 (6,35)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0430	SWS 430	3/16 (4,76)	.312 (7,93)	1/16 (1,59)	.250 (6,35)	.156 (3,96)
12SWS0431	SWS 431	3/32 (2,38)	.240 (6,10)	1/32 (0,79)	.185 (4,70)	.125 (3,18)
12SWS0432	SWS 432	3/64 (1,19)	.250 (6,35)	3/64 (1,19)	.143 (3,63)	.113 (2,87)

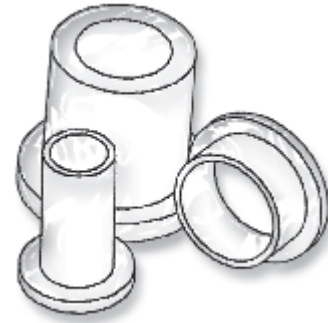


NYLON SHOULDER WASHERS

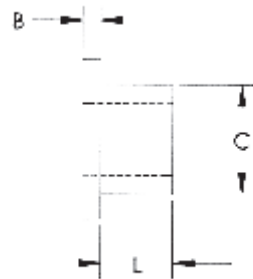
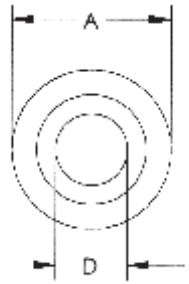
Nylon Shoulder Washers are suitable for a large variety of insulation and mechanical applications.

- ▶ THEY SEAL
- ▶ REDUCE VIBRATION
- ▶ ACT AS SPACERS AND GUIDES
- ▶ STRONG AND CORROSION RESISTANT

New Sizes



ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS0433	SWS 433	7/64 (2,77)	.250 (6,35)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0434	SWS 434	1/16 (1,59)	.312 (7,93)	3/64 (1,19)	.170 (4,32)	.140 (3,56)
12SWS0435	SWS 435	3/64 (1,19)	.250 (6,35)	1/16 (1,59)	.185 (4,70)	.116 (2,95)
12SWS0436	SWS 436	1/32 (0,79)	.240 (6,10)	3/64 (1,19)	.139 (3,53)	.115 (2,92)
12SWS0437	SWS 437	1/32 (0,79)	.265 (6,73)	1/32 (0,79)	.157 (3,99)	.126 (3,20)
12SWS0438	SWS 438	1/32 (0,79)	.312 (7,93)	1/16 (1,59)	.187 (4,75)	.141 (3,58)
12SWS0439	SWS 439	1/16 (1,59)	.250 (6,35)	3/64 (1,19)	.138 (3,50)	.120 (3,05)
12SWS0440	SWS 440	5/16 (7,94)	.312 (7,93)	1/32 (0,79)	.154 (3,91)	.130 (3,30)
12SWS0441	SWS 441	3/16 (4,76)	.312 (7,93)	1/32 (0,79)	.234 (5,94)	.184 (4,67)
12SWS0442	SWS 442	7/32 (5,54)	.296 (7,52)	1/32 (0,79)	.235 (5,97)	.135 (3,43)
12SWS0443	SWS 443	.156 (3,96)	.252 (6,40)	.047 (1,19)	.140 (3,56)	.115 (2,92)
12SWS0444	SWS 444	1/16 (1,59)	.300 (7,62)	3/64 (1,19)	.194 (4,93)	.160 (4,06)
12SWS0445	SWS 445	1/32 (0,79)	.313 (7,95)	1/32 (0,79)	.175 (4,45)	.143 (3,63)
12SWS0446	SWS 446	1/64 (0,41)	.312 (7,93)	3/64 (1,19)	.160 (4,06)	.097 (2,46)
12SWS0448	SWS 448	3/32 (2,38)	.312 (7,93)	3/64 (1,19)	.187 (4,75)	.128 (3,25)
12SWS0449	SWS 449	1/32 (0,79)	.313 (7,95)	1/32 (0,79)	.219 (5,56)	.124 (3,15)
12SWS0450	SWS 450	1/16 (1,59)	.312 (7,93)	3/64 (1,19)	.234 (5,94)	.144 (3,66)
12SWS0451	SWS 451	1/32 (0,79)	.315 (8,00)	.030 (0,76)	.150 (3,81)	.115 (2,92)
12SWS0452	SWS 452	1/32 (0,79)	.312 (7,93)	3/64 (1,19)	.203 (5,16)	.120 (3,05)
12SWS0453	SWS 453	.027 (0,69)	.312 (7,93)	.035 (0,89)	.187 (4,75)	.140 (3,56)
12SWS0454	SWS 454	1/32 (0,79)	.313 (7,95)	1/32 (0,79)	.219 (5,56)	.136 (3,45)
12SWS0455	SWS 455	3/64 (1,19)	.315 (8,00)	1/32 (0,79)	.185 (4,70)	.126 (3,20)
12SWS0456	SWS 456	3/64 (1,19)	.250 (6,35)	3/64 (1,19)	.156 (3,96)	.115 (2,92)
12SWS0457	SWS 457	.031 (0,79)	.250 (6,35)	.031 (0,79)	.187 (4,75)	.120 (3,05)
12SWS0458	SWS 458	.078 (1,98)	.312 (7,92)	.031 (0,79)	.185 (4,70)	.128 (3,25)
12SWS0459	SWS 459	15/64 (5,94)	.291 (7,39)	1/16 (1,59)	.154 (3,91)	.120 (3,05)
12SWS0460	SWS 460	.125 (3,18)	.290 (7,37)	.047 (1,19)	.170 (4,32)	.140 (3,56)
12SWS0462	SWS 462	.031 (0,79)	.312 (7,93)	.063 (1,60)	.187 (4,75)	.123 (3,12)
12SWS0463	SWS 463	.050 (1,27)	.312 (7,93)	.046 (1,17)	.229 (5,82)	.163 (4,13)
12SWS0464	SWS 464	19/64 (7,52)	.250 (6,35)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0465	SWS 465	.060 (1,52)	.312 (7,93)	.030 (0,76)	.189 (4,80)	.144 (3,66)
12SWS0466	SWS 466	.025 (0,64)	.307 (7,80)	.065 (0,89)	.154 (3,91)	.093 (2,36)
12SWS0467	SWS 467	.062 (1,57)	.312 (7,93)	.063 (1,60)	.126 (3,20)	.091 (0,23)
12SWS0468	SWS 468	.250 (6,35)	.312 (7,93)	.060 (1,52)	.210 (5,33)	.142 (3,61)
12SWS0469	SWS 469	.122 (3,10)	.388 (9,85)	.187 (4,75)	.207 (5,26)	.160 (4,06)
12SWS0470	SWS 470	.165 (4,19)	.290 (7,37)	.047 (1,19)	.200 (5,08)	.145 (3,68)
12SWS0472	SWS 472	.027 (0,69)	.316 (8,03)	.096 (2,44)	.181 (4,60)	.150 (3,81)
12SWS0473	SWS 473	.600 (15,24)	.290 (7,39)	.047 (1,19)	.210 (5,33)	.140 (3,56)
12SWS0474	SWS 474	.312 (7,92)	.312 (7,92)	.058 (1,47)	.185 (4,70)	.125 (3,18)
12SWS0475	SWS 475	.100 (2,54)	.312 (7,93)	.045 (1,14)	.150 (3,81)	.114 (2,90)
12SWS0476	SWS 476	.052 (1,32)	.300 (7,62)	.035 (0,89)	.087 (2,21)	.055 (1,40)
12SWS0477	SWS 477	.067 (1,70)	.308 (7,82)	.045 (1,14)	.183 (4,65)	.132 (3,35)
12SWS0478	SWS 478	.750 (19,05)	.325 (8,26)	.047 (1,19)	.220 (5,59)	.140 (3,56)
12SWS0479	SWS 479	.187 (4,75)	5/16 (7,94)	.062 (1,58)	.172 (4,37)	.147 (3,73)
12SWS0480	SWS 480	.100 (2,54)	.310 (7,87)	.037 (0,94)	.242 (6,15)	.164 (4,17)

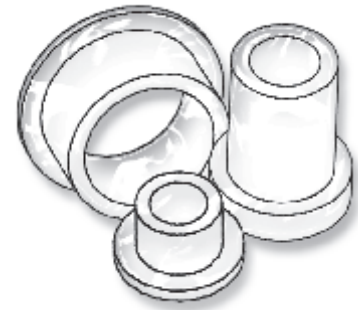


WASHERS, SHOULDER WASHERS & SCREW INSULATORS

SECTION IV

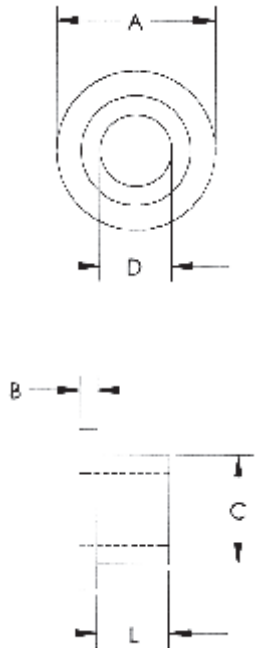
NYLON SHOULDER WASHERS

Nylon Shoulder Washers are suitable for a large variety of insulation and mechanical applications.



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New Sizes



ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS0601	SWS 601	1/4 (6,35)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)
12SWS0602	SWS 602	1/32 (0,79)	.330 (8,38)	1/16 (1,59)	.206 (5,23)	.141 (3,58)
12SWS0603	SWS 603	.062 (1,57)	.300 (7,62)	.050 (1,27)	.180 (4,57)	.150 (3,81)
12SWS0604	SWS 604	.125 (3,18)	.300 (7,62)	.047 (1,19)	.194 (4,93)	.160 (4,06)
12SWS0605	SWS 605	3/64 (1,19)	.328 (8,33)	3/64 (1,19)	.218 (5,54)	.146 (3,71)
12SWS0606	SWS 606	3/64 (1,19)	.340 (8,64)	5/64 (1,98)	.250 (6,35)	.140 (3,56)
12SWS0607	SWS 607	1/16 (1,59)	.289 (7,34)	1/16 (1,59)	.215 (5,46)	.093 (2,36)
12SWS0608	SWS 608	3/64 (1,19)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)
12SWS0609	SWS 609	3/64 (1,19)	.312 (7,93)	1/32 (0,79)	.185 (4,70)	.116 (2,95)
12SWS0610	SWS 610	1/16 (1,59)	.348 (8,83)	1/32 (0,79)	.290 (7,36)	.256 (6,50)
12SWS0612	SWS 612	3/32 (2,38)	.316 (8,03)	3/64 (1,19)	.158 (4,01)	.116 (2,95)
12SWS0614	SWS 614	1/32 (0,79)	.324 (8,23)	1/16 (1,59)	.204 (5,18)	.140 (3,56)
12SWS0615	SWS 615	.065 (1,65)	.320 (8,13)	.050 (1,27)	.182 (4,62)	.141 (3,58)
12SWS0616	SWS 616	.126 (3,20)	.320 (8,13)	.039 (0,99)	.250 (6,35)	.218 (5,54)
12SWS0621	SWS 621	3/32 (2,38)	.340 (8,64)	1/16 (1,59)	.220 (5,59)	.175 (4,45)
12SWS0622	SWS 622	.387 (9,83)	.372 (9,45)	.062 (1,57)	.201 (5,11)	.176 (4,47)
12SWS0628	SWS 628	3/8 (9,53)	.345 (8,76)	1/16 (1,59)	.205 (5,21)	.173 (4,39)
12SWS0629	SWS 629	3/64 (1,19)	.345 (8,76)	1/16 (1,59)	.209 (5,30)	.171 (4,34)
12SWS0630	SWS 630	13/64 (5,16)	.368 (9,34)	5/64 (1,98)	.146 (3,70)	.115 (2,92)
12SWS0632	SWS 632	1/16 (1,59)	.349 (8,87)	3/64 (1,19)	.248 (6,30)	.140 (3,56)
12SWS0633	SWS 633	.060 (1,52)	.349 (8,87)	.050 (1,27)	.260 (6,60)	.133 (3,38)
12SWS0634	SWS 634	11/64 (4,37)	.350 (8,89)	1/64 (0,41)	.300 (7,62)	.112 (2,84)
12SWS0635	SWS 635	.070 (1,78)	.375 (9,53)	.04 (1,02)	.190 (4,83)	.125 (3,18)
12SWS0636	SWS 636	.120 (3,05)	.344 (8,74)	.063 (1,60)	.235 (5,97)	.175 (4,45)
12SWS0798	SWS 798	.085 (2,16)	.344 (8,74)	.063 (1,60)	.235 (5,97)	.175 (4,45)
12SWS0799	SWS 799	3/64 (1,19)	.344 (8,74)	7/64 (2,77)	.189 (4,80)	.141 (3,58)
12SWS0800	SWS 800	9/64 (3,58)	.344 (8,74)	1/16 (1,59)	.210 (5,33)	.170 (4,32)
12SWS0801	SWS 801	3/8 (9,53)	.344 (8,74)	1/16 (1,59)	.205 (5,21)	.173 (4,39)
12SWS0802	SWS 802	1/16 (1,59)	.375 (9,53)	1/32 (0,79)	.195 (4,95)	.171 (4,34)
12SWS0803	SWS 803	13/32 (10,32)	.510 (12,95)	1/16 (1,59)	.250 (6,35)	.171 (4,34)
12SWS0804	SWS 804	.177 (4,50)	.355 (9,02)	.020 (0,51)	.315 (8,00)	.236 (5,99)
12SWS0805	SWS 805	.283 (7,19)	.370 (9,40)	.067 (1,70)	.242 (6,15)	.195 (4,95)
12SWS0806	SWS 806	.250 (6,35)	.344 (8,74)	.032 (0,81)	.205 (5,21)	.173 (4,39)
12SWS0807	SWS 807	.046 (1,17)	.359 (9,12)	.060 (1,52)	.300 (7,62)	.227 (5,77)
12SWS0808	SWS 808	1/8 (3,18)	.375 (9,53)	1/16 (1,59)	.280 (7,11)	.201 (5,10)
12SWS0809	SWS 809	5/32 (3,97)	.378 (9,60)	5/64 (1,98)	.194 (4,92)	.116 (2,94)
12SWS0810	SWS 810	1/32 (0,79)	.375 (9,53)	1/16 (1,59)	.250 (6,35)	.171 (4,34)
12SWS0811	SWS 811	3/64 (1,19)	.375 (9,53)	3/64 (1,19)	.245 (6,22)	.192 (4,88)
12SWS0812	SWS 812	3/32 (2,38)	.375 (9,53)	1/32 (0,79)	.260 (6,60)	.220 (5,59)
12SWS0813	SWS 813	7/64 (2,77)	.375 (9,53)	3/64 (1,19)	.195 (4,95)	.136 (3,45)
12SWS0814	SWS 814	3/64 (1,19)	.375 (9,53)	5/64 (1,98)	.244 (6,20)	.150 (3,81)
12SWS0815	SWS 815	3/32 (2,38)	.375 (9,53)	1/32 (0,79)	.185 (4,70)	.140 (3,56)
12SWS0816	SWS 816	1/32 (0,79)	.375 (9,53)	1/32 (0,79)	.250 (6,35)	.169 (4,29)
12SWS0817	SWS 817	3/64 (1,19)	.375 (9,53)	1/16 (1,59)	.218 (5,54)	.140 (3,56)
12SWS0818	SWS 818	1/32 (0,79)	.375 (9,53)	1/16 (1,59)	.246 (6,25)	.167 (4,24)

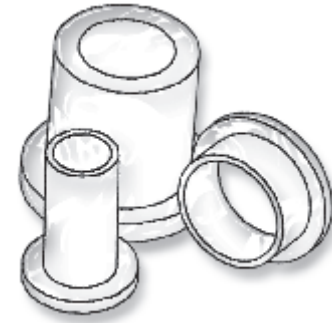


NYLON SHOULDER WASHERS

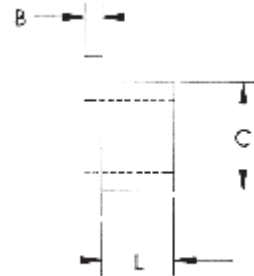
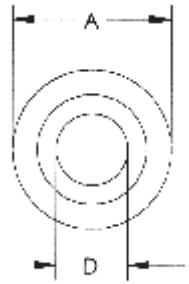
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New Sizes



ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS0819	SWS 819	1/16 (1,59)	.437 (11,10)	1/16 (1,59)	.313 (7,95)	.188 (4,78)
12SWS0820	SWS 820	1/32 (0,79)	.375 (9,53)	1/16 (1,59)	.185 (4,70)	.140 (3,56)
12SWS0821	SWS 821	1/32 (0,79)	.381 (9,68)	1/16 (1,59)	.308 (7,82)	.196 (4,98)
12SWS0822	SWS 822	1/32 (0,79)	.374 (9,50)	1/32 (0,79)	.246 (6,24)	.141 (3,58)
12SWS0823	SWS 823	.099 (2,51)	.375 (9,53)	.040 (1,02)	.250 (6,35)	.171 (4,34)
12SWS0824	SWS 824	.05 (1,27)	3/8 (9,53)	.06 (1,52)	.245 (6,22)	.140 (3,56)
12SWS0825	SWS 825	.060 (1,52)	.375 (9,53)	.030 (0,76)	.245 (6,22)	.145 (3,68)
12SWS0826	SWS 826	.062 (1,57)	.500 (12,70)	1/16 (1,59)	.308 (7,82)	.196 (4,98)
12SWS0827	SWS 827	.046 (1,17)	.375 (9,53)	.040 (1,02)	.250 (6,35)	.171 (4,34)
12SWS0828	SWS 828	.125 (3,18)	.380 (9,65)	.065 (1,65)	.254 (6,45)	.196 (4,98)
12SWS0829	SWS 829	1/8 (3,18)	.370 (9,40)	.110 (2,79)	.307 (7,80)	.255 (6,48)
12SWS0830	SWS 830	.032 (0,81)	.375 (9,53)	.062 (1,57)	.187 (4,75)	.147 (3,73)
12SWS0831	SWS 831	.250 (6,35)	.375 (9,53)	.040 (1,02)	.250 (6,35)	.171 (4,34)
12SWS0832	SWS 832	.043 (1,09)	.375 (9,53)	.035 (0,76)	.257 (6,53)	.193 (4,90)
12SWS0833	SWS 833	.050 (1,27)	.375 (9,53)	.031 (0,79)	.243 (6,17)	.199 (5,05)
12SWS0834	SWS 834	.015 (0,38)	.375 (9,53)	.057 (1,45)	.304 (7,72)	.200 (5,08)
12SWS0835	SWS 835	.050 (1,27)	.377 (9,58)	.050 (1,27)	.245 (6,22)	.155 (3,94)
12SWS0836	SWS 836	.030 (0,76)	.375 (9,53)	.063 (1,60)	.250 (6,35)	.174 (4,42)
12SWS0837	SWS 837	.031 (0,79)	.375 (9,53)	.062 (1,57)	.187 (4,75)	.093 (2,36)
12SWS0838	SWS 838	.180 (4,57)	.350 (8,89)	.067 (1,70)	.240 (6,10)	.188 (4,78)
12SWS0839	SWS 839	.050 (1,27)	.385 (9,78)	.030 (0,76)	.250 (6,35)	.169 (4,29)
12SWS0840	SWS 840	13/64 (5,16)	.370 (9,40)	5/64 (1,98)	.145 (3,68)	.115 (2,92)
12SWS0841	SWS 841	1/8" (3,17)	3/8" (9,52)	.035 (0,89)	.242 (6,15)	.185 (4,70)
12SWS0842	SWS 842	5/64 (1,98)	.375 (9,53)	7/32 (5,55)	.199 (5,05)	.140 (3,56)
12SWS0843	SWS 843	.072 (1,83)	.385 (9,78)	.051 (1,30)	.250 (6,35)	.137 (3,48)
12SWS0844	SWS 844	3/64 (1,19)	.381 (9,68)	1/16 (1,59)	.185 (4,70)	.140 (3,56)
12SWS0845	SWS 845	.346 (8,79)	.370 (9,40)	.031 (0,79)	.242 (6,15)	.180 (4,57)
12SWS0846	SWS 846	1/16 (1,59)	.375 (9,53)	3/32 (2,38)	.250 (6,35)	.140 (3,56)
12SWS0847	SWS 847	.213 (5,14)	.375 (9,53)	1/16 (1,59)	.250 (6,35)	.197 (5,00)
12SWS0848	SWS 848	1/32 (0,79)	.385 (9,78)	1/16 (1,59)	.240 (6,10)	.145 (3,68)
12SWS0849	SWS 849	.060 (1,52)	.375 (9,53)	.030 (0,76)	.312 (7,92)	.253 (6,43)
12SWS0850	SWS 850	1/16 (1,59)	.375 (9,53)	3/32 (2,38)	.250 (6,35)	.138 (3,51)
12SWS0852	SWS 852	3/32 (2,38)	.375 (9,53)	1/16 (1,59)	.248 (6,30)	.136 (3,45)
12SWS0853	SWS 853	.030 (0,76)	.380 (9,65)	.066 (1,68)	.250 (6,35)	.190 (4,83)
12SWS0854	SWS 854	3/64 (1,19)	.375 (9,53)	1/16 (1,59)	.240 (6,10)	.194 (4,93)
12SWS0855	SWS 855	7/64 (2,77)	.375 (9,53)	1/16 (1,59)	.240 (6,10)	.138 (3,51)
12SWS0856	SWS 856	3/32 (2,38)	.375 (9,53)	1/64 (0,41)	.185 (4,70)	.140 (3,56)
12SWS0857	SWS 857	5/32 (3,97)	.375 (9,53)	5/64 (1,98)	.193 (4,90)	.116 (2,95)
12SWS0858	SWS 858	1/16 (1,59)	.375 (9,53)	1/16 (1,59)	.250 (6,35)	.145 (3,68)
12SWS0859	SWS 859	9/64 (3,58)	.375 (9,53)	1/32 (0,79)	.245 (6,22)	.187 (4,75)
12SWS0860	SWS 860	13/64 (5,16)	.380 (9,65)	1/16 (1,59)	.220 (5,59)	.148 (3,76)
12SWS0861	SWS 861	1/8 (3,18)	.378 (9,60)	1/32 (0,79)	.255 (6,48)	.116 (2,94)
12SWS0862	SWS 862	3/16 (4,76)	.390 (9,91)	5/64 (1,98)	.287 (7,29)	.196 (4,98)
12SWS0863	SWS 863	5/64 (1,98)	.390 (9,91)	5/64 (1,98)	.313 (7,95)	.203 (5,16)
12SWS0864	SWS 864	7/64 (2,77)	.395 (10,03)	5/64 (1,98)	.299 (7,59)	.230 (5,84)

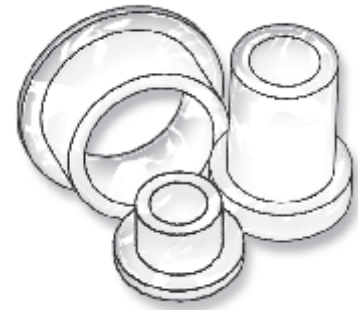


WASHERS, SHOULDER WASHERS & SCREW INSULATORS

SECTION IV

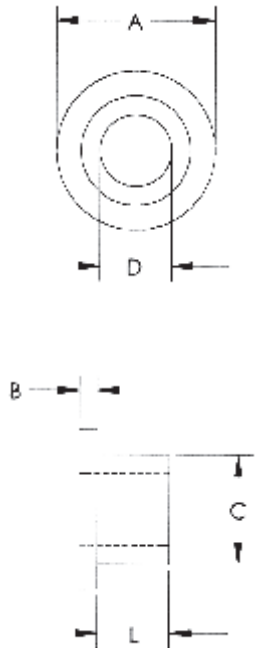
NYLON SHOULDER WASHERS

Nylon Shoulder Washers are suitable for a large variety of insulation and mechanical applications.



- ▶ THEY SEAL
- ▶ REDUCE VIBRATION
- ▶ ACT AS SPACERS AND GUIDES
- ▶ STRONG AND CORROSION RESISTANT

New Sizes



ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS0865	SWS 865	.055 (1,44)	.380 (9,65)	.065 (1,65)	.254 (6,45)	.196 (4,98)
12SWS0867	SWS 867	.046 (1,17)	.375 (9,53)	.040 (1,02)	.214 (5,44)	.141 (3,58)
12SWS0868	SWS 868	.031 (0,79)	.375 (9,53)	.062 (1,57)	.312 (7,92)	.253 (6,43)
12SWS0869	SWS 869	.207 (5,26)	.390 (9,91)	.062 (1,57)	.348 (8,84)	.312 (7,92)
12SWS0870	SWS 870	1/8 (3,18)	.433 (10,99)	1/16 (1,59)	.312 (7,92)	.199 (5,05)
12SWS0871	SWS 871	.130 (3,30)	.390 (9,91)	.062 (1,57)	.260 (6,60)	.200 (5,08)
12SWS0872	SWS 872	.160 (4,06)	27/64(10,72)	.050 (1,27)	9/32 (7,15)	.200 (5,08)
12SWS0873	SWS 873	.126 (3,20)	.394 (10,01)	.039 (0,99)	.256 (6,50)	.221 (5,61)
12SWS0874	SWS 874	.139 (3,53)	.390 (9,91)	.025 (0,63)	.303 (7,70)	.223 (5,66)
12SWS0875	SWS 875	.300 (7,62)	.375 (9,53)	.050 (1,27)	.253 (6,43)	.125 (3,18)
12SWS0876	SWS 876	.075 (1,91)	.390 (9,91)	.062 (1,57)	.260 (6,60)	.200 (5,08)
12SWS0877	SWS 877	.312 (7,92)	.390 (9,91)	.055 (1,40)	.281 (7,14)	.171 (4,34)
12SWS0878	SWS 878	.126 (3,20)	.394 (10,01)	.030 (0,76)	.256 (6,50)	.221 (5,61)
12SWS0879	SWS 879	.380 (9,65)	.385 (9,78)	.060 (1,52)	.236 (5,99)	.195 (4,95)
12SWS0880	SWS 880	1/8 (3,18)	.400 (10,16)	1/8 (3,18)	.275 (6,99)	.140 (3,56)
12SWS0881	SWS 881	.187 (4,75)	.312 (7,92)	.125 (3,18)	.250 (6,35)	.115 (2,92)
12SWS0882	SWS 882	9/32 (7,14)	.470 (11,93)	5/64 (1,98)	.312 (7,92)	.140 (3,56)
12SWS0885	SWS 885	.100 (1,54)	.400 (10,16)	1/8 (3,18)	.275 (6,99)	.140 (3,56)
12SWS0887	SWS 887	.187 (4,75)	.408 (10,36)	.062 (1,57)	.240 (6,10)	.197 (5,00)
12SWS0888	SWS 888	3/64 (1,19)	.400 (10,16)	3/64 (1,19)	.243 (6,17)	.156 (3,96)
12SWS0890	SWS 890	3/64 (1,19)	.415 (10,54)	5/32 (3,97)	.243 (6,17)	.141 (3,58)
12SWS0891	SWS 891	.058 (1,47)	.445 (11,30)	.077 (1,96)	.343 (8,71)	.308 (7,82)
12SWS0894	SWS 894	1/16 (1,59)	.418 (10,62)	7/64 (2,77)	.243 (6,17)	.141 (3,58)
12SWS0895	SWS 895	.050 (1,27)	.437 (11,10)	.062 (1,57)	.274 (6,96)	.199 (5,05)
12SWS0896	SWS 896	3/16 (4,76)	.408 (10,36)	1/16 (1,59)	.240 (6,10)	.220 (5,59)
12SWS0897	SWS 897	.315 (8,00)	.433 (11,00)	.079 (2,01)	.310 (7,87)	.202 (5,13)
12SWS0898	SWS 898	.050 (1,27)	.438 (11,13)	.062 (1,57)	.350 (8,89)	.125 (3,18)
12SWS0900	SWS 900	1/32 (0,79)	.428 (10,87)	1/16 (1,59)	.245 (6,22)	.156 (3,96)
12SWS0901	SWS 901	.093 (2,36)	.437 (11,10)	.040 (1,02)	.375 (9,53)	.194 (4,93)
12SWS0902	SWS 902	1/32 (0,79)	.437 (11,10)	1/16 (1,59)	.245 (6,22)	.156 (3,96)
12SWS0903	SWS 903	.115 (2,92)	.432 (10,97)	.065 (1,65)	.256 (6,50)	.196 (4,98)
12SWS0904	SWS 904	3/8 (9,53)	.437 (11,10)	1/16 (1,59)	.282 (7,16)	.225 (5,72)
12SWS0905	SWS 905	1/16 (1,59)	.425 (10,78)	1/16 (1,59)	.310 (7,87)	.250 (6,35)
12SWS0906	SWS 906	.035 (0,89)	.625 (15,87)	.050 (1,27)	.427 (10,84)	.170 (4,32)
12SWS0907	SWS 907	.026 (0,66)	.438 (11,13)	.094 (2,39)	.307 (7,80)	.253 (6,43)
12SWS0908	SWS 908	3/32 (2,38)	.438 (11,13)	1/32 (0,79)	.267 (6,78)	.203 (5,16)
12SWS0909	SWS 909	13/32 (10,32)	.493 (12,52)	3/32 (2,38)	.376 (9,55)	.176 (4,47)
12SWS0910	SWS 910	.070 (1,78)	.443 (11,25)	.048 (1,22)	.285 (7,24)	.191 (4,85)
12SWS0911	SWS 911	.048 (1,22)	.428 (10,87)	.155 (3,94)	.261 (6,63)	.163 (4,14)
12SWS0912	SWS 912	9/64 (3,58)	.432 (10,97)	1/32 (0,79)	.303 (7,70)	.196 (4,98)
12SWS0914	SWS 914	.043 (1,09)	.440 (11,18)	.094 (2,39)	.312 (7,92)	.193 (4,90)
12SWS0915	SWS 915	.138 (3,51)	.413 (10,49)	.315 (8,00)	.244 (6,20)	.217 (5,51)
12SWS0916	SWS 916	3/16 (4,76)	.743 (18,87)	1/16 (1,59)	.437 (11,10)	.376 (9,55)
12SWS0917	SWS 917	3/64 (1,19)	.428 (10,87)	1/8 (3,18)	.350 (8,89)	.308 (7,82)
12SWS0918	SWS 918	3/64 (1,19)	.450 (11,43)	1/64 (0,41)	.310 (7,87)	.230 (5,84)

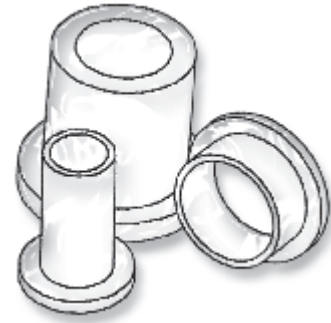


NYLON SHOULDER WASHERS

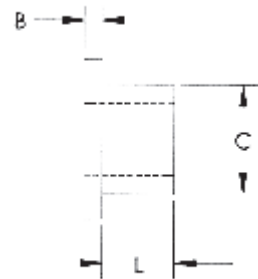
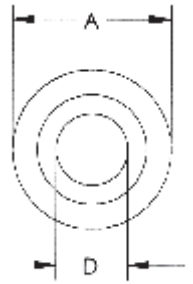
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New Sizes



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12SWS0919	SWS 919	.060 (1,52)	.460 (11,68)	.030 (0,76)	.370 (9,40)	.260 (6,60)
12SWS0920	SWS 920	.138 (3,51)	.413 (10,62)	.118 (3,00)	.244 (6,20)	.217 (5,51)
12SWS0921	SWS 921	.236 (5,99)	.480 (12,19)	.079 (2,01)	.315 (8,00)	.240 (6,10)
12SWS0922	SWS 922	.280 (7,11)	.450 (11,43)	.047 (1,19)	.170 (4,32)	.140 (3,56)
12SWS0925	SWS 925	3/64 (1,19)	.468 (11,89)	1/16 (1,59)	.248 (6,30)	.140 (3,56)
12SWS0926	SWS 926	11/16 (17,53)	.498 (12,64)	1/16 (1,59)	.375 (9,53)	.254 (6,45)
12SWS0930	SWS 930	7/32 (5,55)	.468 (11,89)	3/64 (1,19)	.375 (9,53)	.325 (8,26)
12SWS0935	SWS 935	.187 (4,75)	.495 (12,57)	.065 (1,65)	.312 (7,92)	.200 (5,08)
12SWS0940	SWS 940	.157 (3,99)	.483 (12,27)	.059 (1,50)	.315 (8,00)	.240 (6,10)
12SWS0950	SWS 950	.157 (3,99)	.472 (11,99)	.181 (4,60)	.315 (8,00)	.205 (5,21)
12SWS0951	SWS 951	.031 (0,79)	.500 (12,70)	.031 (0,79)	.243 (6,17)	.171 (4,34)
12SWS0952	SWS 952	.099 (2,51)	.500 (12,70)	.096 (2,44)	.373 (9,47)	.194 (4,93)
12SWS0953	SWS 953	.187 (4,75)	.500 (12,70)	.062 (1,57)	.307 (7,80)	.265 (6,73)
12SWS0954	SWS 954	.085 (2,16)	.500 (12,70)	.039 (0,99)	.234 (5,94)	.195 (4,95)
12SWS0968	SWS 968	.748 (19,00)	.698 (17,73)	.065 (1,65)	.400 (10,16)	.316 (8,03)
12SWS0969	SWS 969	.335 (8,51)	.551 (14,00)	.059 (1,50)	.413 (10,49)	.335 (8,51)
12SWS0970	SWS 970	.200 (5,08)	.500 (12,70)	.105 (2,67)	.245 (6,22)	.171 (4,34)
12SWS1000	SWS 1000	.240 (6,10)	.563 (14,30)	.068 (1,73)	.443 (11,25)	.320 (8,13)
12SWS1001	SWS 1001	3/8 (9,53)	.399 (10,13)	1/16 (1,59)	.260 (6,60)	.200 (5,08)
12SWS1002	SWS 1002	3/32 (2,38)	.438 (11,13)	1/16 (1,59)	.267 (6,78)	.203 (5,16)
12SWS1003	SWS 1003	3/16 (4,76)	.745 (18,92)	1/32 (0,79)	.282 (7,16)	.234 (5,94)
12SWS1004	SWS 1004	9/64 (3,58)	.438 (11,13)	1/32 (0,79)	.250 (6,35)	.135 (3,43)
12SWS1005	SWS 1005	5/64 (1,98)	.464 (11,79)	1/64 (0,41)	.312 (7,92)	.255 (6,48)
12SWS1006	SWS 1006	11/64 (4,37)	.425 (10,80)	1/16 (1,59)	.377 (9,58)	.260 (6,60)
12SWS1007	SWS 1007	3/64 (1,19)	.437 (11,10)	3/64 (1,19)	.281 (7,14)	.201 (5,11)
12SWS1008	SWS 1008	3/64 (1,19)	.620 (15,75)	3/64 (1,19)	.312 (7,92)	.205 (5,21)
12SWS1009	SWS 1009	1/16 (1,59)	.740 (18,80)	1/32 (0,79)	.368 (9,53)	.320 (8,13)
12SWS1010	SWS 1010	3/64 (1,19)	.625 (15,88)	7/64 (2,77)	.375 (9,53)	.250 (6,35)
12SWS1011	SWS 1011	1/16 (1,59)	.675 (17,14)	3/32 (2,38)	.480 (12,19)	.257 (6,53)
12SWS1012	SWS 1012	1/8 (3,18)	.697 (17,70)	1/16 (1,59)	.359 (9,12)	.266 (6,76)
12SWS1013	SWS 1013	3/64 (1,19)	.688 (17,48)	1/32 (0,79)	.543 (13,79)	.508 (12,90)
12SWS1014	SWS 1014	1/32 (0,79)	.437 (11,10)	1/32 (0,79)	.310 (7,87)	.253 (6,43)
12SWS1015	SWS 1015	3/64 (1,19)	.500 (12,70)	3/32 (2,38)	.275 (6,99)	.145 (3,68)
12SWS1016	SWS 1016	7/16 (11,11)	.500 (12,70)	1/8 (3,18)	.250 (6,35)	.167 (4,24)
12SWS1017	SWS 1017	1/16 (1,59)	.562 (14,27)	3/32 (2,38)	.375 (9,53)	.260 (6,60)
12SWS1018	SWS 1018	3/16 (4,76)	.625 (15,88)	1/16 (1,59)	.322 (8,18)	.255 (6,48)
12SWS1019	SWS 1019	3/64 (1,19)	.615 (15,62)	1/32 (0,79)	.310 (7,87)	.253 (6,43)
12SWS1020	SWS 1020	1/16 (1,59)	.640 (16,26)	1/16 (1,59)	.380 (9,65)	.195 (4,95)
12SWS1021	SWS 1021	3/64 (1,19)	.630 (16,00)	1/32 (0,79)	.248 (6,30)	.171 (4,34)
12SWS1022	SWS 1022	3/64 (1,19)	.625 (15,88)	1/16 (1,59)	.375 (9,53)	.190 (4,83)
12SWS1023	SWS 1023	3/64 (1,19)	.555 (14,10)	5/64 (1,98)	.300 (7,62)	.260 (6,60)
12SWS1024	SWS 1024	1/2 (12,70)	.620 (15,75)	.031 (0,79)	.370 (9,40)	.316 (8,03)
12SWS1025	SWS 1025	7/16 (11,11)	9/16 (14,28)	1/16 (1,59)	.375 (9,53)	.255 (6,48)
12SWS1026	SWS 1026	1/32 (0,79)	.588 (14,93)	1/32 (0,79)	.253 (6,43)	.198 (5,02)
12SWS1027	SWS 1027	1/2 (12,70)	.500 (12,70)	1/16 (1,59)	.365 (9,27)	.312 (7,92)

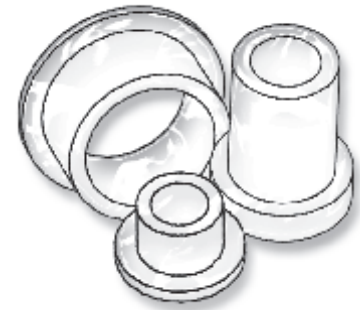


WASHERS, SHOULDER WASHERS & SCREW INSULATORS

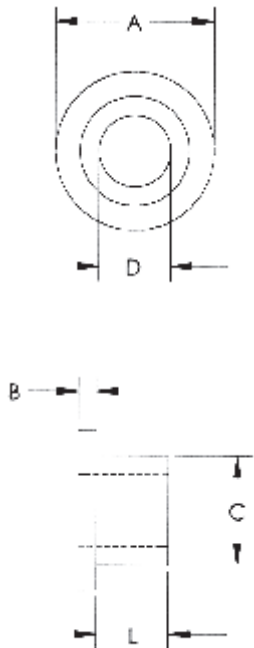
SECTION IV

NYLON SHOULDER WASHERS

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ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS1028	SWS 1028	.249 (6,32)	.500 (12,70)	.062 (1,57)	.250 (6,35)	.189 (4,80)
12SWS1029	SWS 1029	.158 (4,01)	.500 (12,70)	.120 (3,05)	.300 (7,62)	.196 (4,98)
12SWS1030	SWS 1030	3/32 (2,38)	.490 (12,45)	1/16 (1,59)	.281 (7,14)	.200 (5,08)
12SWS1031	SWS 1031	.050 (1,27)	.500 (12,70)	.062 (1,57)	.248 (6,30)	.194 (4,93)
12SWS1032	SWS 1032	1/32 (0,79)	.500 (12,70)	3/32 (2,38)	.250 (6,35)	.156 (3,96)
12SWS1033	SWS 1033	5/16 (7,94)	.500 (12,70)	1/16 (1,59)	.312 (7,92)	.200 (5,08)
12SWS1034	SWS 1034	1/32 (0,79)	.500 (12,70)	1/32 (0,79)	.312 (7,92)	.252 (6,40)
12SWS1035	SWS 1035	1/32 (0,79)	.500 (12,70)	1/16 (1,59)	.230 (5,84)	.147 (3,73)
12SWS1036	SWS 1036	1/64 (0,41)	.500 (12,70)	5/64 (1,98)	.250 (6,35)	.165 (4,19)
12SWS1037	SWS 1037	.047 (1,19)	.500 (12,70)	.125 (3,17)	.281 (7,14)	.219 (5,56)
12SWS1038	SWS 1038	1.000 (25,40)	.875 (22,23)	.062 (1,57)	.500 (12,70)	.390 (9,91)
12SWS1039	SWS 1039	.310 (7,87)	.630 (16,0)	.070 (1,78)	.265 (6,73)	.184 (4,67)
12SWS1040	SWS 1040	3/32 (2,38)	.505 (12,83)	1/16 (1,59)	.343 (8,71)	.257 (6,53)
12SWS1041	SWS 1041	.335 (8,51)	.495 (12,57)	.050 (1,27)	.346 (8,79)	.260 (6,60)
12SWS1042	SWS 1042	.027 (0,69)	.500 (12,70)	.031 (0,79)	.248 (6,30)	.199 (5,05)
12SWS1044	SWS 1044	.080 (2,03)	.500 (12,70)	.078 (1,98)	.213 (5,41)	.145 (3,68)
12SWS1045	SWS 1045	3/16 (4,76)	.498 (12,65)	1/4 (6,35)	.310 (7,87)	.195 (4,95)
12SWS1046	SWS 1046	.150 (3,81)	.504 (12,80)	.160 (4,06)	.312 (7,92)	.265 (6,73)
12SWS1047	SWS 1047	1.250 (31,75)	.500 (12,70)	.125 (3,18)	.375 (9,53)	.250 (6,35)
12SWS1048	SWS 1048	7/16 (11,11)	.500 (12,70)	1/16 (1,59)	.375 (9,53)	.250 (6,35)
12SWS1049	SWS 1049	.076 (1,93)	.500 (12,70)	.040 (1,02)	.345 (8,76)	.265 (6,73)
12SWS1050	SWS 1050	5/32 (3,97)	.490 (12,45)	1/16 (1,59)	.250 (6,35)	.190 (4,83)
12SWS1051	SWS 1051	3/64 (1,19)	.441 (11,20)	1/16 (1,59)	.248 (6,30)	.194 (4,92)
12SWS1052	SWS 1052	5/32 (3,97)	.488 (12,39)	1/8 (3,18)	.250 (6,35)	.190 (4,83)
12SWS1053	SWS 1053	.170 (4,32)	.500 (12,70)	.125 (3,17)	.375 (9,52)	.257 (6,53)
12SWS1054	SWS 1054	9/64 (3,58)	.500 (12,70)	1/16 (1,59)	.345 (8,76)	.285 (7,34)
12SWS1055	SWS 1055	1/32 (0,79)	.495 (12,57)	1/32 (0,79)	.312 (7,92)	.260 (6,60)
12SWS1057	SWS 1057	3/32 (2,38)	.505 (12,83)	1/16 (1,59)	.312 (7,92)	.260 (6,60)
12SWS1058	SWS 1058	1/32 (0,79)	.490 (12,45)	1/32 (0,79)	.310 (7,87)	.193 (4,90)
12SWS1059	SWS 1059	.060 (1,52)	.500 (12,70)	.030 (0,76)	.365 (9,27)	.260 (6,60)
12SWS1060	SWS 1060	5/64 (1,98)	.492 (12,50)	1/32 (0,79)	.318 (8,08)	.265 (6,73)
12SWS1061	SWS 1061	5/32 (3,97)	.488 (12,39)	1/8 (3,18)	.250 (6,35)	.215 (5,46)
12SWS1065	SWS 1065	3/16 (4,76)	.513 (13,03)	1/16 (1,59)	.312 (7,92)	.175 (4,45)
12SWS1069	SWS 1069	.630 (16,00)	.492 (12,50)	.055 (1,40)	.370 (9,40)	.315 (8,00)
12SWS1070	SWS 1070	5/64 (1,98)	.495 (12,57)	1/32 (0,79)	.318 (8,08)	.193 (4,90)
12SWS1071	SWS 1071	.253 (6,43)	.502 (12,75)	.187 (4,75)	.374 (9,50)	.318 (8,08)
12SWS1075	SWS 1075	1/4 (6,35)	.513 (13,03)	1/16 (1,59)	.370 (9,40)	.260 (6,60)
12SWS1079	SWS 1079	.122 (3,10)	.500 (12,70)	.167 (4,24)	.270 (6,86)	.222 (5,64)
12SWS1080	SWS 1080	1/64 (0,41)	.500 (12,70)	1/32 (0,79)	.318 (8,08)	.141 (3,58)
12SWS1081	SWS 1081	.375 (9,53)	.500 (12,70)	.093 (2,36)	.411 (10,44)	.380 (9,65)
12SWS1082	SWS 1082	3/64 (1,19)	.500 (12,70)	1/32 (0,79)	.318 (8,08)	.193 (4,90)
12SWS1083	SWS 1083	.160 (4,06)	1/2 (12,70)	.062 (1,57)	.360 (9,14)	.260 (6,60)
12SWS1084	SWS 1084	3/64 (1,19)	.500 (12,70)	1/32 (0,79)	.318 (8,08)	.141 (3,58)
12SWS1086	SWS 1086	1/16 (1,59)	.500 (12,70)	1/16 (1,59)	.330 (8,38)	.150 (3,81)
12SWS1088	SWS 1088	.109 (2,77)	.500 (12,70)	1/16 (1,59)	.240 (6,10)	.138 (3,51)



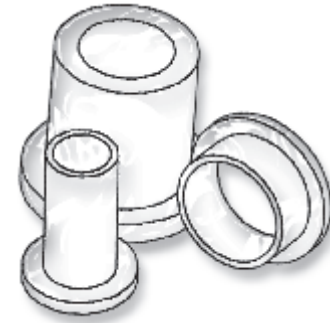
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- ▶ REDUCE VIBRATION
- ▶ ACT AS SPACERS AND GUIDES
- ▶ STRONG AND CORROSION RESISTANT

New Sizes



ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS1090	SWS 1090	3/64 (1,19)	.518 (13,16)	1/32 (0,79)	.305 (7,75)	.080 (2,03)
12SWS1092	SWS 1092	.075 (1,91)	.500 (12,70)	.175 (4,45)	.300 (7,62)	.195 (4,95)
12SWS1095	SWS 1095	1/8 (3,18)	.502 (12,75)	1/32 (0,79)	.399 (10,13)	.349 (8,86)
12SWS1096	SWS 1096	*.375 (9,53)	*.437 (11,10)	.055 (1,40)	*.310 (7,87)	*.196 (4,98)
12SWS1098	SWS 1098	9/64 (3,58)	.515 (13,08)	1/16 (1,59)	.312 (7,93)	.260 (6,60)
12SWS1100	SWS 1100	15/16 (23,81)	.540 (13,72)	.065 (1,65)	.370 (9,40)	.260 (6,60)
12SWS1101	SWS 1101	3/32 (2,38)	.500 (12,70)	1/32 (0,79)	.282 (7,16)	.234 (5,94)
12SWS1115	SWS 1115	.500 (12,70)	.525 (15,88)	.063 (1,60)	.370 (9,40)	.267 (6,78)
12SWS1145	SWS 1145	.030 (0,76)	.562 (14,28)	.030 (0,76)	.400 (10,16)	.318 (8,08)
12SWS1150	SWS 1150	3/64 (1,19)	.562 (14,28)	3/64 (1,19)	.300 (7,62)	.260 (6,60)
12SWS1151	SWS 1151	.104 (2,64)	.562 (14,28)	.046 (1,17)	.300 (7,62)	.260 (6,60)
12SWS1152	SWS 1152	.500 (12,70)	.525 (13,33)	.063 (1,60)	.370 (9,40)	.265 (6,73)
12SWS1153	SWS 1153	.040 (1,02)	.560 (14,22)	.060 (1,52)	.312 (7,92)	.257 (6,53)
12SWS1154	SWS 1154	.050 (1,27)	.516 (13,11)	.060 (1,52)	.345 (8,76)	.260 (6,60)
12SWS1155	SWS 1155	3/64 (1,19)	.562 (14,28)	.024 (0,61)	.370 (9,40)	.335 (8,51)
12SWS1159	SWS 1159	9/16 (14,29)	.550 (13,97)	1/16 (1,59)	.375 (9,53)	.255 (6,48)
12SWS1160	SWS 1160	1/16 (1,59)	.562 (14,28)	7/64 (2,77)	.365 (9,27)	.215 (5,46)
12SWS1161	SWS 1161	.620 (15,75)	9/16 (14,27)	1/16 (1,57)	.395 (10,03)	.355 (9,02)
12SWS1162	SWS 1162	27/64 (10,72)	.560 (14,22)	1/16 (1,59)	.375 (9,53)	.255 (6,48)
12SWS1163	SWS 1163	15/32 (11,91)	.550 (13,97)	1/16 (1,59)	.380 (9,65)	.247 (6,27)
12SWS1164	SWS 1164	1/32 (0,79)	.562 (14,28)	1/8 (3,18)	.312 (7,93)	.169 (4,29)
12SWS1165	SWS 1165	1/4 (6,35)	.551 (13,99)	1/16 (1,59)	.380 (9,65)	.248 (6,30)
12SWS1167	SWS 1167	.128 (3,25)	.591 (15,01)	.197 (5,00)	.394 (10,01)	.157 (3,99)
12SWS1170	SWS 1170	3/8 (9,53)	.570 (14,48)	1/16 (1,59)	.470 (11,94)	.385 (9,78)
12SWS1175	SWS 1175	.783 (19,89)	.570 (14,48)	.039 (0,99)	.491 (12,47)	.413 (10,49)
12SWS1176	SWS 1176	.335 (8,51)	.545 (13,84)	.075 (1,91)	.316 (8,03)	.166 (4,22)
12SWS1180	SWS 1180	3/64 (1,19)	.578 (14,68)	1/16 (1,59)	.185 (4,70)	.140 (3,56)
12SWS1197	SWS 1197	.342 (8,69)	.625 (15,88)	.125 (3,18)	.485 (12,32)	.390 (9,91)
12SWS1198	SWS 1198	.093 (2,36)	.620 (15,75)	.063 (1,60)	.360 (9,14)	.320 (8,13)
12SWS1199	SWS 1199	.100 (2,54)	.620 (15,75)	.062 (1,57)	.400 (10,16)	.260 (6,60)
12SWS1200	SWS 1200	3/64 (1,19)	.615 (15,62)	3/64 (1,19)	.315 (8,00)	.208 (5,28)
12SWS1201	SWS 1201	1/8 (3,18)	.620 (15,75)	3/8 (9,53)	.360 (9,14)	.320 (8,13)
12SWS1204	SWS 1204	.500 (12,70)	.600 (15,24)	.025 (0,64)	.485 (12,32)	.324 (8,23)
12SWS1205	SWS 1205	1/32 (0,79)	.620 (15,75)	3/64 (1,19)	.434 (11,02)	.383 (9,73)
12SWS1207	SWS 1207	.163 (4,14)	.625 (15,88)	.040 (1,02)	.281 (7,14)	.219 (5,56)
12SWS1208	SWS 1208	.100 (2,54)	.620 (15,75)	.060 (1,52)	.502 (12,75)	.316 (8,03)
12SWS1210	SWS 1210	1/32 (0,79)	.625 (15,88)	1/16 (1,59)	.495 (12,57)	.378 (9,60)
12SWS1211	SWS 1211	.139 (3,53)	.625 (15,88)	.066 (1,68)	.405 (10,29)	.320 (8,13)
12SWS1212	SWS 1212	.025 (0,64)	.625 (15,88)	.062 (1,57)	.375 (9,53)	.200 (5,08)
12SWS1213	SWS 1213	.031 (0,79)	.625 (15,88)	.031 (0,79)	.437 (11,10)	.380 (9,65)
12SWS1214	SWS 1214	.150 (3,81)	.630 (16,00)	.050 (1,27)	.375 (9,53)	.280 (7,11)
12SWS1215	SWS 1215	.062 (1,57)	.625 (15,88)	1/32 (0,79)	.310 (7,87)	.195 (4,95)
12SWS1217	SWS 1217	.030 (0,76)	.625 (15,88)	.030 (0,76)	.447 (12,12)	.378 (9,60)
12SWS1219	SWS 1219	3/64 (1,19)	.625 (15,88)	1/16 (1,59)	.310 (7,87)	.172 (4,37)
12SWS1220	SWS 1220	3/4 (19,05)	.620 (15,75)	1/8 (3,18)	.400 (10,60)	.260 (6,60)

* +/- .010

