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SA SERIES CYLINDRICAL

1/8" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/16"	SA-41DC	1-1/2"	1/4"	SA-41
3/32"	SA-42DC	1-1/2"	7/16"	SA-42
1/8"	SA-43DC	1-1/2"	9/16"	SA-43
5/32"	SA-52DC	1-1/2"	1/2"	SA-52
3/16"	SA-53DC	1-1/2"	1/2"	SA-53
1/4"	SA-51DC	2"	1/2"	SA-51

3mm SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1.5mm	SA-41MDC	38mm	6mm	SA-41
3mm	SA-43MDC	38mm	14mm	SA-43
6.3mm	SA-51MDC	50mm	12.7mm	SA-51

6mm SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
4.7mm	SA-14MDC	50mm	16mm	SA-14
6mm	SA-1MDC	50mm	16mm	SA-1
8mm	SA-2MDC	63mm	19mm	SA-2
9.5mm	SA-3MDC	63mm	19mm	SA-3
12.7mm	SA-5MDC	68mm	25mm	SA-5
16mm	SA-6MDC	68mm	25mm	SA-6
25.4mm	SA-9MDC	68mm	25mm	SA-9

1/4" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/8"	SA-11DC	2"	1/2"	SA-11
3/16"	SA-14DC	2"	5/8"	SA-14
1/4"	SA-1DC	2"	5/8"	SA-1
5/16"	SA-2DC	2-3/4"	3/4"	SA-2
3/8"	SA-3DC	2-3/4"	3/4"	SA-3
7/16"	SA-4DC	3"	1"	SA-4
1/2"	SA-5DC	3"	1"	SA-5
5/8"	SA-6DC	3"	1"	SA-6
3/4"	SA-7DC	3"	1"	SA-7
1"	SA-9DC	3"	1"	SA-9

6mm SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
4.7mm	SB-14MDC	50mm	16mm	SB-14
6mm	SB-1MDC	50mm	16mm	SB-1
8mm	SB-2MDC	63mm	20mm	SB-2
9.5mm	SB-3MDC	63mm	19mm	SB-3
11mm	SB-4MDC	68mm	25mm	SB-4
12.7mm	SB-5MDC	68mm	25mm	SB-5
16mm	SB-6MDC	68mm	25mm	SB-6
19mm	SB-7MDC	68mm	25mm	SB-7

SB SERIES CYLINDRICAL WITH END CUT

1/8" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/4"	SB-51DC	2"	1/2"	SB-51

1/4" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/8"	SB-11DC	2"	1/2"	SB-11
3/16"	SB-14DC	2"	5/8"	SB-14
1/4"	SB-1DC	2"	5/8"	SB-1
5/16"	SB-2DC	2-3/4"	3/4"	SB-2
3/8"	SB-3DC	2-3/4"	3/4"	SB-3
7/16"	SB-4DC	3"	1"	SB-4
1/2"	SB-5DC	3"	1"	SB-5
5/8"	SB-6DC	3"	1"	SB-6
3/4"	SB-7DC	3"	1"	SB-7

6mm SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
4.7mm	SC-14MDC	50mm	16mm	SC-14
6mm	SC-1MDC	50mm	16mm	SC-1
8mm	SC-2MDC	63mm	20mm	SC-2
9.5mm	SC-3MDC	63mm	19mm	SC-3
11mm	SC-4MDC	68mm	25mm	SC-4
12.7mm	SC-5MDC	68mm	25mm	SC-5
16mm	SC-6MDC	68mm	25mm	SC-6
19mm	SC-7MDC	68mm	25mm	SC-7

SC SERIES CYLINDRICAL BALL NOSE

1/8" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
3/32"	SC-41DC	1-1/2"	7/16"	SC-41
1/8"	SC-42DC	1-1/2"	9/16"	SC-42
5/32"	SC-52DC	1-1/2"	1/2"	SC-52
3/16"	SC-53DC	1-1/2"	1/2"	SC-53
1/4"	SC-51DC	2"	3/16"	SC-51

6mm SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
4.7mm	SC-14MDC	50mm	16mm	SC-14
6mm	SC-1MDC	50mm	16mm	SC-1
8mm	SC-2MDC	63mm	20mm	SC-2
9.5mm	SC-3MDC	63mm	19mm	SC-3
11mm	SC-4MDC	68mm	25mm	SC-4
12.7mm	SC-5MDC	68mm	25mm	SC-5
16mm	SC-6MDC	68mm	25mm	SC-6
19mm	SC-7MDC	68mm	25mm	SC-7

1/4" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/8"	SC-11DC	2"	1/2"	SC-11
3/16"	SC-14DC	2"	5/8"	SC-14
1/4"	SC-1DC	2"	3/4"	SC-1
5/16"	SC-2DC	2-3/4"	3/4"	SC-2
3/8"	SC-3DC	2-3/4"	3/4"	SC-3
7/16"	SC-4DC	3"	1"	SC-4
1/2"	SC-5DC	3"	1"	SC-5
5/8"	SC-6DC	3"	1"	SC-6
3/4"	SC-7DC	3"	1"	SC-7

SD SERIES BALL

1/8" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
3/32"	SD-41DC	1-1/2"	1/16"	SD-41
1/8"	SD-42DC	1-1/2"	3/32"	SD-42
3/16"	SD-53DC	1-1/2"	1/8"	SD-53
1/4"	SD-51DC	1-11/16"	7/32"	SD-51

6mm SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
3mm	SD-11MDC	50mm	2mm	SD-11
6mm	SD-1MDC	50mm	5mm	SD-1
8mm	SD-2MDC	50mm	7mm	SD-2
9.5mm	SD-3MDC	52mm	8mm	SD-3
12.7mm	SD-5MDC	54mm	11mm	SD-5
16mm	SD-6MDC	58mm	14mm	SD-6

1/4" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/8"	SD-11DC	2"	3/32"	SD-11
3/16"	SD-14DC	2"	5/32"	SD-14
1/4"	SD-1DC	2"	7/32"	SD-1
5/16"	SD-2DC	2-1/4"	1/4"	SD-2
3/8"	SD-3DC	2-5/16"	5/16"	SD-3
7/16"	SD-4DC	2-3/8"	3/8"	SD-4
1/2"	SD-5DC	2-7/16"	7/16"	SD-5
5/8"	SD-6DC	2-9/16"	9/16"	SD-6
3/4"	SD-7DC	2-11/16"	11/16"	SD-7
1"	SD-9DC	2-15/16"	15/16"	SD-9

6mm SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
3mm	SE-11MDC	50mm	2mm	SE-11
6mm	SE-1MDC	50mm	10mm	SE-1
9.5mm	SE-3MDC	60mm	16mm	SE-3
12.7mm	SE-5MDC	66mm	22mm	SE-5

1/8" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/8"	SE-41DC	1-1/2"	7/32"	SE-41
3/16"	SE-53DC	1-1/2"	9/32"	SE-53
1/4"	SE-51DC	1-7/8"	3/8"	SE-51

1/4" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/4"	SE-1DC	2"	3/8"	SE-1
3/8"	SE-3DC	2-5/8"	5/8"	SE-3
1/2"	SE-5DC	2-7/8"	7/8"	SE-5
5/8"	SE-6DC	3"	1"	SE-6
3/4"	SE-7DC	3"	1"	SE-7

1/4" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/4"	SA-1AL	2"	1/4"	SA-1
3/8"	SA-3AL	2-3/4"	3/4"	SA-3
1/2"	SA-5AL	3"	1"	SA-5
5/8"	SA-6AL	4"	1"	SA-6
3/4"	SA-7AL	4"	1"	SA-7

6mm SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
4.7mm	SA-1MAL	50mm	19mm	SA-1
6mm	SA-3MAL	63mm	19mm	SA-3
9.5mm	SA-5MAL	68mm	25mm	SA-5
12.7mm	SA-6MAL	68mm	25mm	SA-6

1/4" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
5/8"	SB-5AL	3"	1"	SB-5
3/8"	SB-3AL	2"	3/4"	SB-3

1/8" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/8"	SH-41DC	1-1/2"	1/4"	SH-41
3/16"	SH-53DC	1-1/2"	3/8"	SH-53

1/4" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/4"	SC-1AL	2"	3/4"	SC-1
3/8"	SC-3AL	2-3/4"	3/4"	SC-3
1/2"	SC-5AL	3"	1"	SC-5
5/8"	SC-6AL	3"	1"	SC-6
3/4"	SC-7AL	3"	1"	SC-7

6mm SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
6mm	SC-1MAL	50mm	19mm	SC-1
9.5mm	SC-3MAL	63mm	19mm	SC-3
12.7mm	SC-5MAL	68mm	25mm	SC-5

1/4" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/4"	SD-1AL	2"	7/32"	SD-1
3/8"	SD-3AL	2-5/16"	5/16"	SD-3
1/2"	SD-5AL	2-7/16"	7/16"	SD-5
5/8"	SD-6AL	2-9/16"	9/16"	SD-6

6mm SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
9.5mm	SD-3MAL	52mm	8mm	SD-2
12.7mm	SD-5MAL	54mm	11mm	SD-5

1/4" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
3/8"	SE-3AL	2-5/8"	5/8"	SE-3
1/2"	SE-5AL	2-7/8"	7/8"	SE-5
5/8"	SE-6AL	3"	1"	SE-6

6mm SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
9.5mm	SE-3MAL	60mm	16mm	SE-3
12.7mm	SE-5MAL	66mm	22mm	SE-5

SF SERIES TREE RADIUS NOSE

1/8" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/8"	SF-41DC	1-1/2"	1/4"	SF-41
3/16"	SF-53DC	1-1/2"	1/2"	SF-53
1/4"	SF-51DC	2"	1/2"	SF-51

1/4" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/4"	SF-1DC	2"	3/4"	SF-1
3/8"	SF-3DC	2-3/4"	3/4"	SF-3
7/16"	SF-4DC	3"	1"	SF-4
1/2"	SF-5DC	3"	1"	SF-5
1/2"	SF-13DC	2-3/4"	3/4"	SF-13
5/8"	SF-6DC	3"	1"	SF-6
3/4"	SF-14DC	3-1/4"	1-1/4"	SF-14
3/4"	SF-7DC	3"	1"	SF-7
3/4"	SF-15DC	3-1/2"	1-1/2"	SF-15

SG SERIES TREE POINTED NOSE

1/8" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/8"	SG-41DC	1-1/2"	1/4"	SG-41
1/8"	SG-42DC	1-1/2"	5/16"	SG-42
1/8"	SG-43DC	1-1/2"	3/8"	SG-43
1/8"	SG-44DC	1-1/2"	1/2"	SG-44
3/16"	SG-53DC	1-1/2"	1/2"	SG-53
1/4"	SG-51DC	2"	1/2"	SG-51

1/8" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/8"	SH-41DC	1-1/2"	1/4"	SH-41
3/16"	SH-53DC	1-1/2"	3/8"	SH-53

SL SERIES INCLUDED ANGLE

1/8" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/8"	SL-41DC	1-1/2"	3/8"	SL-41
1/8"	SL-42DC	1-1/2"	1/2"	SL-42
3/16"	SL-53DC	1-1/2"	1/2"	SL-53

1/4" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	STYLE
1/4"	SL-1DC	2"	5/8"	SL-1
5/16"	SL-2DC	2-7/8"	7/8"	SL-2
3/8"	SL-3DC	3-1/16"	1-1/16"	SL-3
1/2"	SL-4DC	3-1/8"	1-1/8"	SL-4
5/8"	SL-6DC	3-5/16"	1-5/16"	SL-6
3/4"	SL-7DC	3-1/2"	1-1/2"	SL-7

SM SERIES POINTED CONE

1/8" SHANK DIA.

HEAD DIA.	CODE	OAL	FL	ANGLE	STYLE
1/8"	SM-41DC	1-1/2"	3/8"		