



DO YOU NEED SPEEDI-SLEEVE?

A seal worn shaft will show polished tracks or grooves. While you may be able to feel the smaller diameter or shaft wear area with your fingernail, often the damage will show only when new seals also leak. Don't take a chance ... install a Speedi-Sleeve.

CR Speedi-Sleeve is a highly engineered, precision part of finest stainless. Its ultra-thin wall design allows it to be used without changing the seal size, and its finish is perfect for lip sealing applications. Since it is factory finished to 10-20 RMS with no machine lead, it requires no expensive preparation or machining.

Speedi-Sleeves are built with a removable installation flange. The installation tool included in every box allows the sleeve to be pulled on, thereby avoiding the possibility of distortion from heating or other installation methods.

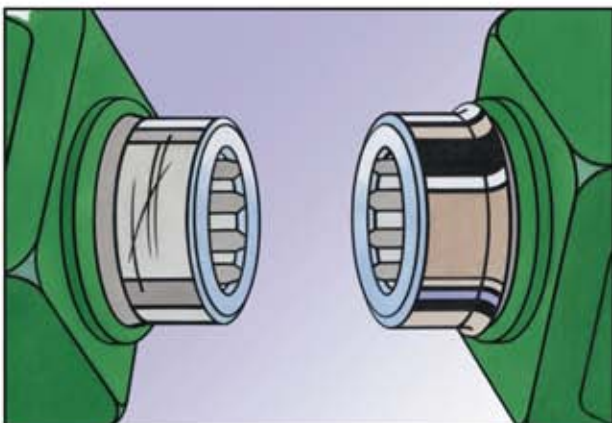
Due to this design, it is often possible to install Speedi-Sleeve without removing the shaft, thereby markedly reducing downtime.

Speedi-Sleeve repair extends maintenance intervals, as the surface is hard enough to outlast most original shaft materials. And the stainless reduces problems caused by shaft corrosion.

The sealing surface is extremely important. It must, of course, be free from cuts and scratches, but it also must not have any machine lead. It cannot be too smooth (under 10 RMS), as this fine a finish provides no microscopic pockets of lubricant upon which the seal depends for lasting operation. Corrosion is another area of concern in the maintenance of the shaft/seal contact area. In the past, maintenance options have been severely limited once the situation had deteriorated. A new shaft could be installed, or the old one could be removed and metalized, reground and replaced. A conventional wear sleeve could be applied, but this necessitates changing to oversized seals. In most cases, the repair is temporary and does not guarantee a decent sealing surface.

The central point is obviously that all of these situations lead to downtime of vital plant equipment. The cost of the repair method becomes secondary when the cost of idle plant and production line facilities is considered.

Contact between a rotating shaft and a seal always causes shaft polishing friction. Wear can accelerate as factors in the sealing environment change. Dust, heat, high shaft speed and lack of lubrication will cause a seal lip to groove the shaft ... and ultimately create a leak. A new seal is no longer the answer, as it cannot compensate for the damage to the shaft



WHAT SIZE DO YOU NEED?

Measure diameter where sleeve will be positioned, in the unworn diameter ahead of the wear path. Do not measure in the track worn by the seal.

Measure in three positions (12 to 6 o'clock, 2 to 8 o'clock, and 4 to 10 o'clock) and average the readings in case shaft is out of round.

If the average diameter is within the range published for a given Speedi-Sleeve, there is sufficient pressfit built into the sleeve to keep it from sliding or spinning and no cement is necessary.

Shaft diameters of a few thousandths under the published minimum diameter may be sleeved if the Speedi-Sleeve is cemented into place.

Diameters larger than the maximum shown can be sleeved if first machined within range to a finish of 125 RMS or better.



HOW ARE THEY INSTALLED?

First, clean old surface thoroughly. File down any burrs and clean up any rough spots.

Note how far back the sleeve must be positioned to cover old seal wear tracks. Measure to a convenient point or mark directly on shaft. Check whether the disposable tool that is supplied with each Speedi-Sleeve will reach this far. If a longer tool is needed, a length of tubing or pipe can be substituted.

If shaft is deeply scored, fill groove with powdered metal epoxy type filler and install sleeve before filler hardens.

Drop Speedi-Sleeve into installation tool end so that only the flange projects. Note that the flanged end of the sleeve goes on the shaft first. Then, gently pound center of tool until the sleeve reaches the point to which you measured. Use a wood block or large face mallet on larger sizes to avoid the possibility of caving in the back of the installation tool.

If clearance is required, the Speedi-Sleeve flange can be removed easily. Use side-cutters to fit through the flange, then pry flange away from seal surface. The flange will peel off along the pre-cut line.

Speedi-Sleeves may be installed to any depth required. Column "Z", installation depth indicates that maximum distance from the end of the shaft that will be resurfaced when installed with the tool supplied with each sleeve. A tool can easily be fabricated to make deeper installations.

HOW ARE THEY REMOVED?

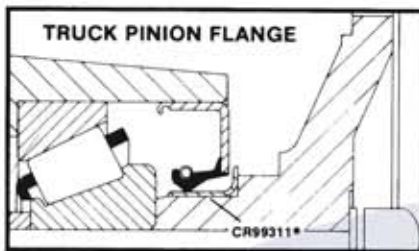
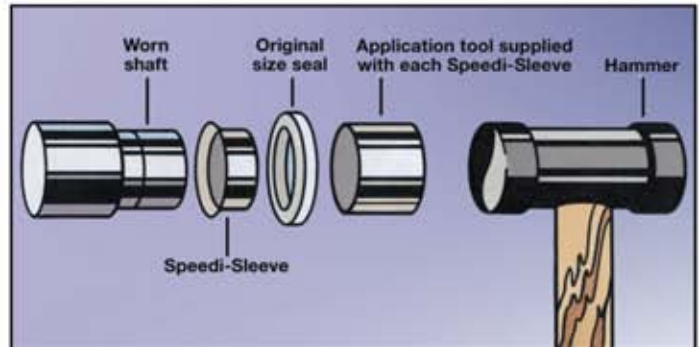
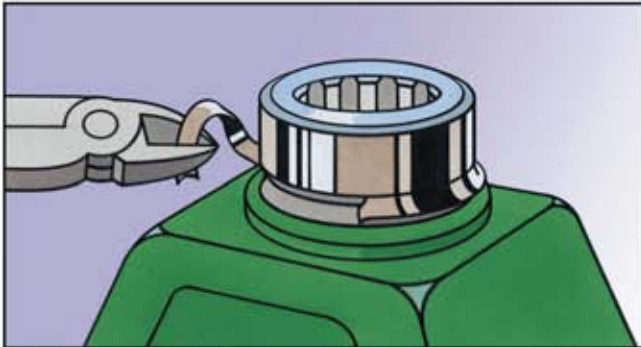
A Speedi-Sleeve can be removed in a number of ways depending upon personal preference and/or shaft configuration. Suggested methods are (1) the application of heat will often cause the sleeve to expand sufficiently to permit removal (2) a pair of wire cutters



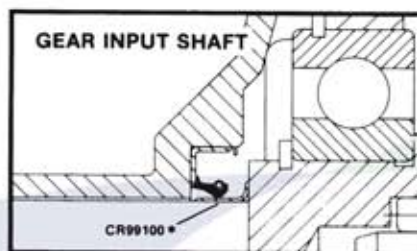
may be effective to "rip" or "tear" the sleeve from the shaft by starting at or near the flange using a twisting motion (3) with the flange removed the sleeve may be stretched by employing a small ball-peen hammer to "peen" one or more lines across the full width of the sleeve.

These unique products can be used almost anywhere. Below we offer some suggestions to solve some specific sealing problems. CR Speedi-Sleeves are stocked in hundreds of sizes; they are simple to specify, easy to obtain, install quickly and offer outstanding performance.

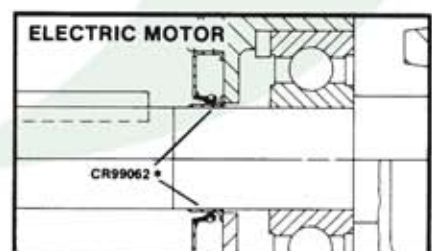
IDEAS FOR THE USE OF CR SPEEDI-SLEEVE



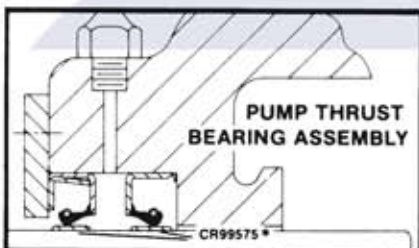
Pinion yokes are subjected to road dirt, dust, grit, salt and water. These abrasives can severely groove the sealing surface. Speedi-Sleeve provides a new leak-proof sealing surface of corrosion resistant stainless steel.



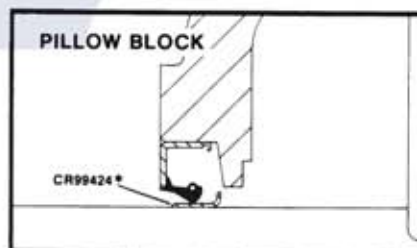
A leaking seal worn shaft is expensive to replace and requires extensive disassembly and downtime. A low cost, high quality stainless steel Speedi-Sleeve will easily and quickly repair a seal worn shaft — often to better-than-new condition.



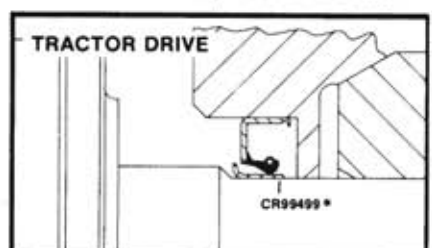
Many electric motor shafts are not replaceable. Grinding and resizing is expensive and often requires difficult-to-find alternate size seals. Speedi-Sleeves require no shaft resizing or alternate seals. A low cost Speedi-Sleeve can be installed in five minutes with no shaft removal. The original size seal can be used.



Long pump shafts are subjected to a variety of fluids and particulate matter. When the sealing surface is damaged, a stainless steel Speedi-Sleeve can quickly provide a new sealing surface to keep the bearings protected and get the pump back into operation.

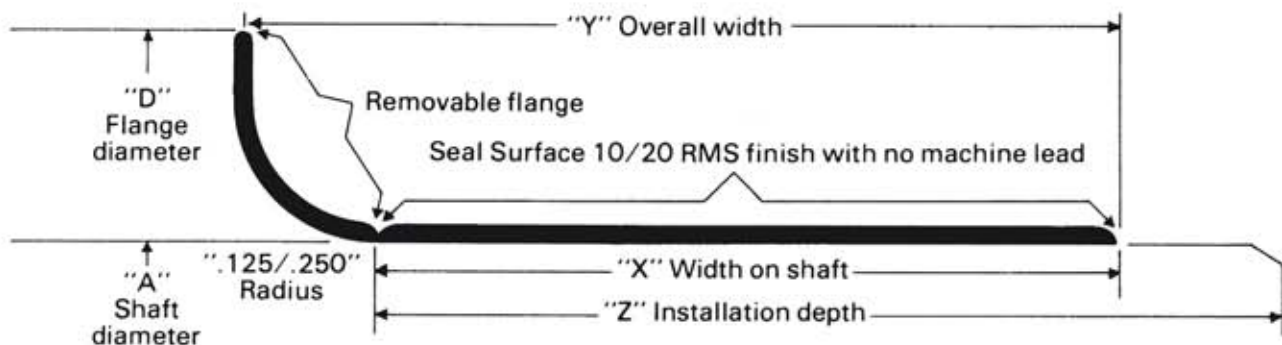


Keeping dirt, water, dust, and even fine powder out of the pillow blocks can be a real problem — this special sleeve acts as a positive shroud to keep all contamination away from the bearing assembly.



The shafts of tractor drives are exposed to very dirty environments. When the shaft becomes scored by the working of the tip seal, the Speedi-Sleeve can provide a new sealing surface — one that is more durable than the original surface and utilizes the original size seal.

* Stock numbers listed are the most popular for the application described.





SPEEDI-SLEEVES SIZE LISTING — METRIC

REF SHAFT	"A" SHAFT DIAMETER RANGE		STOCK NUMBER	"X" WIDTH ON SHAFT ±0.8 MM	"Y" OVERALL WIDTH ±0.8 MM	"D" FLANGE DIAMETER ±1.6 MM	"Z" INSTALLATION DEPTH MM
	MINIMUM MM	MAXIMUM MM					
12.00 12.70 14.30	11.93 12.65 14.22	12.07 12.75 14.38	99049 99050 99056	6.0 6.4 6.4	8.4 8.7 9.9	20.0 15.5 19.1	12 51 47
15.00 15.88 17.00	14.96 15.82 16.95	15.06 15.92 17.05	99059 99062 99068	5.0 8.0 8.0	9.0 10.3 11.0	19.1 19.1 22.2	11 51 51
17.37 18.00 19.00	17.32 17.89 19.00	17.42 18.00 19.10	99060 99082 99076	8.0 8.0 8.0	11.1 11.0 11.1	27.0 27.0 24.0	51 46 51
19.30 19.86 20.00	19.28 19.81 19.95	19.33 19.91 20.05	99081 99080 99078	8.0 8.0 8.0	11.1 11.1 11.0	23.8 23.8 23.6	51 51 51
21.82 22.00 22.23	21.77 21.87 22.17	21.87 22.00 22.27	99086 99085 99087	6.5 8.0 8.0	9.5 12.0 11.1	29.3 30.2 27.8	51 46 51
24.59 24.59 25.00	24.54 24.54 24.95	24.64 24.64 25.05	99096 99094 99098	15.9 8.0 8.0	18.3 11.1 11.0	28.7 28.7 33.0	51 51 51
25.40 26.00 27.00	25.35 25.87 26.92	25.45 26.00 27.03	99100 99103 99106	8.0 8.0 8.0	11.1 12.0 11.0	31.0 33.3 33.5	51 46 72
27.66 28.00 28.58	27.61 27.94 28.52	27.71 28.04 28.62	99108 99111 99112	8.0 9.5 8.0	11.1 12.7 11.1	35.7 34.9 38.1	16 71 17
29.36 29.85 30.00	29.31 29.79 29.95	29.41 29.92 30.07	99120 99122 99114	9.5 8.0 8.0	12.7 11.1 11.0	34.3 40.0 35.6	17 17 17
30.15 31.00 31.50	30.10 30.89 31.42	30.22 31.04 31.57	99118 99123 99141	8.0 8.0 8.0	11.0 11.0 11.1	35.6 39.7 39.1	17 16 17
31.75 32.00 33.30	31.67 31.92 33.23	31.83 32.08 33.37	99125 99128 99129	8.0 8.0 6.4	11.1 11.1 9.5	38.1 38.0 40.6	18 18 21
33.35 34.90 34.90	33.28 34.82 34.82	33.42 34.98 34.98	99131 99138 99133	12.7 12.7 8.0	15.9 15.9 11.1	40.5 41.6 41.6	21 21 21
35.00 36.00 36.45	34.92 35.84 36.37	35.08 36.00 36.52	99139 99146 99143	13.0 13.0 14.3	16.0 17.0 17.5	41.6 42.9 42.9	20 25 26
36.53 38.00 38.10	36.45 37.84 38.02	36.60 38.00 38.18	99144 99147 99149	9.5 13.0 14.3	12.7 17.0 17.5	45.2 45.2 45.2	26 25 26
38.10 38.68 39.42	38.02 38.61 39.35	38.18 38.76 39.49	99150 99152 99155	9.5 11.1 11.1	12.7 14.3 14.3	45.2 47.2 47.2	26 26 26
39.67 40.00 40.77	39.60 39.92 40.69	39.74 40.08 40.84	99156 99157 99160	14.3 13.0 12.7	17.5 16.0 16.3	47.2 47.0 49.2	26 26 25
41.28 41.28 42.00	41.21 41.20 41.84	41.35 41.35 42.00	99162 99161 99169	14.3 8.0 14.3	17.5 11.1 17.5	47.6 47.6 53.0	21 26 21
42.85 42.88 43.64	42.77 42.80 43.56	42.93 42.95 43.71	99168 99167 99171	14.3 8.0 14.3	17.5 11.1 17.5	48.4 48.4 51.6	22 22 21
44.17 44.45 44.45	44.09 44.37 44.37	44.25 44.53 44.53	99170 99180 99174	9.5 13.5 14.3	12.7 15.9 17.5	52.4 52.4 52.4	21 21 21
44.45 44.45 44.80	44.37 44.37 44.73	44.53 44.53 44.87	99175 99172 99176	19.0 9.5 14.3	22.2 12.7 17.5	52.4 52.2 52.4	21 21 21
45.00 45.24 46.00	44.92 45.16 45.95	45.08 45.31 46.10	99177 99179 99181	14.0 16.9 14.3	17.0 20.3 17.5	53.0 54.0 53.1	21 29 26
47.24 47.47 47.63	47.17 47.40 47.55	47.32 47.55 47.70	99185 99186 99188	14.3 22.6 7.5	17.5 26.0 10.5	54.8 55.6 56.0	25 25 19



SPEEDI-SLEEVES SIZE LISTING — METRIC (Continued)

REF SHAFT	"A" SHAFT DIAMETER RANGE		STOCK NUMBER	"X" WIDTH ON SHAFT ±0.8 MM	"Y" OVERALL WIDTH ±0.8 MM	"D" FLANGE DIAMETER ±1.6 MM	"Z" INSTALLATION DEPTH MM
	MINIMUM MM	MAXIMUM MM					
47.63	47.55	47.70	99184	9.5	13.1	56.0	27
47.63	47.55	47.70	99187	14.3	17.5	56.0	25
47.63	47.55	47.70	99190	4.5	7.5	56.0	19
48.00	47.92	48.08	99189	14.0	17.0	56.0	25
48.56	48.49	48.64	99192	9.5	12.7	56.4	25
49.20	49.12	49.28	99193	14.3	17.5	56.4	25
50.00	49.92	50.08	99196	14.0	17.0	57.0	25
50.30	50.22	50.37	99198	14.3	17.9	58.7	27
50.80	50.73	50.87	99200	22.2	25.4	61.1	25
50.80	50.73	50.87	99199	14.3	17.5	61.1	25
52.32	52.25	52.39	99205	19.8	23.8	63.4	35
54.00	53.95	54.10	99212	19.8	23.8	61.5	35
54.00	53.92	54.05	99210	12.7	19.0	61.5	33
55.00	54.92	55.08	99215	20.0	23.0	62.0	32
55.60	55.52	55.68	99218	19.8	23.8	63.5	33
56.64	56.56	56.72	99230	19.8	23.0	64.3	32
56.64	56.56	56.72	99229	12.7	15.9	64.3	33
56.90	56.82	56.97	99226	19.4	22.9	65.1	32
57.20	57.12	57.28	99225	19.8	23.8	64.3	33
57.20	57.12	57.28	99227	8.0	11.1	64.3	33
58.72	58.65	58.80	99231	19.8	23.8	68.3	35
59.18	59.10	59.26	99233	19.0	22.2	69.8	38
60.00	59.92	60.08	99235	20.0	23.0	70.7	35
60.25	60.18	60.32	99236	19.8	23.8	69.9	35
60.33	60.25	60.40	99238	15.1	19.1	69.9	35
60.38	60.31	60.45	99237	19.8	23.8	69.9	35
60.38	60.31	60.45	99240	13.4	17.3	69.9	35
61.90	61.83	61.97	99243	19.8	23.8	71.8	35
62.00	61.85	62.00	99242	12.7	15.9	71.8	36
63.30	63.23	63.37	99249	19.8	23.8	73.0	35
63.50	63.50	63.65	99248	12.7	16.7	71.8	35
63.50	63.50	63.65	99250	19.8	23.8	71.6	35
63.50	63.42	63.58	99253	14.1	16.5	71.6	23
63.83	63.75	63.91	99251	19.8	23.0	71.8	37
65.00	64.92	65.08	99254	20.0	23.0	72.4	35
65.10	65.02	65.18	99256	19.8	23.8	72.4	35
66.00	65.92	66.08	99259	19.8	23.8	76.0	32
66.57	66.50	66.64	99261	19.8	23.8	77.4	35
66.65	66.57	66.73	99264	19.8	23.0	77.4	35
66.68	66.60	66.75	99260	12.7	15.9	77.4	35
66.75	66.68	66.82	99262	19.8	23.8	77.4	35
69.34	69.26	69.42	99268	19.8	23.0	79.4	33
69.67	69.60	69.74	99273	19.8	23.8	77.9	32
69.80	69.72	69.88	99274	19.8	23.8	79.4	32
69.85	69.77	69.93	99267	36.5	41.3	78.1	41
69.85	69.77	69.93	99270	19.8	23.0	79.4	32
70.00	69.85	70.00	99275	19.8	23.8	79.4	32
70.00	69.86	70.00	99269	28.6	31.8	79.4	33
70.00	69.92	70.08	99276	20.0	24.0	79.4	32
70.00	69.85	70.00	99272	10.3	14.3	79.4	31
71.42	71.35	71.50	99281	15.1	17.5	80.9	32
72.16	72.08	72.24	99282	12.7	16.7	81.9	32
72.87	72.80	72.94	99286	19.8	23.8	81.0	32
73.00	72.97	73.13	99287	19.8	23.8	81.8	32
74.68	74.60	74.75	99293	19.8	23.8	84.9	33
75.00	74.92	75.08	99294	22.0	26.0	84.0	33
76.00	75.95	76.10	99299	20.6	25.4	85.1	33
76.00	75.95	76.10	99298	14.3	17.5	85.3	35
76.20	76.12	76.28	99296	20.6	23.8	82.3	35
76.28	76.20	76.40	99303	15.9	20.6	85.0	27
76.28	76.20	76.35	99300	20.6	25.4	82.2	33
76.48	76.40	76.56	99301	12.7	15.8	85.2	51
79.32	79.25	79.40	99312	20.6	25.4	89.7	51
79.32	79.24	79.40	99311	17.5	20.6	89.7	51
79.44	79.35	79.53	99307	14.0	18.0	89.5	52
80.00	79.92	80.08	99315	21.0	24.0	90.0	35



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	MINIMUM MM	MAXIMUM MM					
80.00	79.81	80.01	99313	19.1	22.5	89.9	35
82.00	81.92	82.07	99328	15.5	20.3	91.1	44
82.55	82.47	82.63	99322	20.6	25.4	91.3	35
82.63	82.55	82.70	99326	17.5	22.2	91.1	32
82.63	82.55	82.70	99325	20.6	25.4	91.1	35
82.63	82.55	82.70	99324	15.1	18.3	90.8	35
84.00	84.00	84.15	99331	20.6	25.4	93.7	35
85.00	84.78	85.00	99333	21.0	25.0	94.0	35
85.75	85.67	85.83	99337	20.6	25.4	93.9	35
85.75	85.67	85.83	99338	9.4	12.7	93.7	36
87.33	87.25	87.40	99339	19.8	23.0	97.6	36
88.39	88.31	88.47	99340	19.8	23.0	97.4	36
89.00	88.90	89.05	99350	20.6	25.4	97.6	34
89.00	88.93	89.08	99349	15.9	20.6	97.6	34
89.00	88.90	89.05	99347	8.0	12.7	97.2	34
90.00	89.92	90.08	99353	13.4	16.9	101.6	44
90.00	89.92	90.08	99351	18.0	23.0	101.6	46
90.00	89.92	90.08	99354	23.0	28.0	101.6	44
90.00	89.92	90.08	99352	11.0	13.7	101.6	46
90.50	90.42	90.58	99356	20.6	25.4	99.1	44
92.00	91.90	92.05	99360	20.6	25.4	102.4	44
92.10	92.02	92.18	99362	20.6	25.4	102.4	44
92.10	92.02	92.18	99363	12.7	15.9	102.2	45
93.65	93.57	93.73	99368	8.0	11.1	97.3	22
93.68	93.60	93.75	99365	20.6	23.8	102.2	45
94.74	94.67	94.82	99359	12.0	15.1	102.0	44
95.00	94.99	95.15	99364	12.0	15.1	102.5	45
95.00	95.00	95.15	99374	8.7	12.7	102.4	44
95.00	94.92	95.08	99369	21.0	24.0	102.2	44
95.22	95.14	95.30	99376	14.3	17.5	102.2	45
95.33	95.26	95.40	99372	17.5	22.2	102.1	48
95.33	95.26	95.40	99367	8.7	12.7	102.2	44
98.32	98.25	98.40	99386	20.6	25.4	106.3	48
98.45	98.37	98.53	99387	20.6	25.4	107.2	48
94.74	94.66	94.82	99366	19.8	23.0	102.2	45
100.00	99.95	100.10	99393	20.6	25.4	110.0	52
101.65	101.55	101.75	99400	16.5	19.7	111.1	35
101.65	101.55	101.75	99399	20.6	25.4	111.1	52
101.65	101.55	101.75	99395	15.2	18.4	111.1	52
104.00	103.90	104.10	99409	20.0	24.0	112.7	36
104.80	104.70	104.90	99412	20.6	25.4	113.5	35
105.00	104.90	105.10	99413	20.0	23.0	113.5	35
106.35	106.25	106.45	99418	20.6	25.4	114.3	35
107.44	107.34	107.54	99423	19.8	23.0	117.1	37
108.00	107.90	108.10	99424	20.6	25.4	117.1	37
110.00	109.90	110.10	99435	12.9	16.5	125.0	31
111.00	111.00	111.20	99437	20.6	25.4	120.7	42
112.00	111.80	112.00	99438	19.0	22.5	120.7	27
112.72	112.62	112.83	99439	25.4	29.0	122.2	33
114.30	114.20	114.40	99450	20.6	25.4	124.5	32
115.00	114.90	115.10	99452	20.6	23.8	127.0	32
117.48	117.37	117.58	99465	11.1	15.8	123.8	35
117.48	117.37	117.57	99463	25.4	31.8	128.6	35
119.00	119.00	119.20	99468	20.6	25.4	128.6	35
120.00	119.90	120.10	99473	20.0	25.0	129.8	32
120.65	120.55	120.75	99475	12.7	19.0	127.0	38
122.00	121.89	122.10	99472	20.0	24.0	131.5	32
123.83	123.72	123.93	99487	15.9	19.1	133.4	37
125.00	124.90	125.10	99492	26.0	32.0	137.2	37
127.00	126.95	127.15	99499	20.6	25.4	136.9	37
127.00	126.95	127.15	99498	17.5	22.2	137.2	37
130.00	129.98	130.18	99491	22.0	25.3	139.5	33
130.00	129.79	130.00	99494	19.0	24.0	139.5	30
130.15	130.05	130.25	99513	20.6	25.4	139.7	32
133.35	133.25	133.45	99525	20.6	25.4	141.2	32
135.00	134.79	135.00	99533	20.5	25.4	149.2	32



SPEEDI-SLEEVES SIZE LISTING — METRIC (Continued)

REF SHAFT	"A" SHAFT DIAMETER RANGE		STOCK NUMBER	"X" WIDTH ON SHAFT ±0.8 MM	"Y" OVERALL WIDTH ±0.8 MM	"D" FLANGE DIAMETER ±1.6 MM	"Z" INSTALLATION DEPTH MM
	MINIMUM MM	MAXIMUM MM					
136.53 138.13 139.00	136.42 138.02 139.00	136.62 138.23 139.20	99537 99548 99547	20.6 38.1 14.3	25.4 42.9 19.1	149.2 146.1 154.9	32 48 25
139.75 140.00 145.54	139.65 139.90 145.44	139.85 140.10 145.64	99549 99552 99562	20.6 20.5 14.3	25.4 25.5 19.1	150.8 151.0 149.9	32 32 24
146.05 149.23 150.00	145.95 149.12 149.75	146.15 149.33 150.00	99575 99587 99595	20.6 25.4 26.0	25.4 31.8 30.0	157.0 157.2 159.0	44 33 34
150.83 152.37 152.37	150.73 152.27 152.27	150.93 152.47 152.47	99596 99599 99601	25.4 25.4 12.7	28.6 31.8 19.0	161.9 161.9 161.5	48 44 44
154.00 155.00 157.56	153.87 154.75 157.43	154.13 155.00 157.68	99605 99606 99620	26.0 26.0 20.6	30.0 30.0 27.0	161.9 167.0 168.3	33 33 44
158.75 160.00 165.10	158.62 159.74 164.97	158.88 160.00 165.23	99625 99630 99650	26.2 25.4 25.4	31.8 31.8 31.8	168.3 177.8 177.8	44 46 44
170.00 171.45 175.00	169.75 171.32 174.75	170.00 171.58 175.00	99640 99675 99687	31.8 20.6 28.0	38.0 27.0 32.0	182.6 181.0 187.0	55 44 35
177.80 180.00 184.00	177.67 179.79 184.00	177.93 180.00 184.25	99700 99721 99725	25.4 33.0 31.7	31.8 38.0 38.1	189.9 190.5 197.1	43 45 55
185.00 189.20 190.50	184.73 189.08 190.37	185.00 189.33 190.63	99726 99745 99750	32.0 20.6 20.6	38.0 25.4 25.4	199.0 199.6 200.0	55 32 32
193.17 196.85 200.00	193.04 196.72 199.87	193.29 196.98 200.13	99760 99775 99787	38.1 25.4 34.5	44.5 33.3 38.1	209.5 210.1 212.7	48 48 44
201.63 203.20	201.50 203.07	201.75 203.33	99799 99800	25.4 25.4	31.8 31.8	212.7 212.7	45 44

SPEEDI-SLEEVES SIZE LISTING — INCHES

REF SHAFT	"A" SHAFT DIAMETER RANGE		STOCK NUMBER	"X" WIDTH ON SHAFT (INCHES ±.031)	"Y" OVERALL WIDTH (INCHES ±.031)	"D" FLANGE DIAMETER (INCHES ±.063)	"Z" INSTALLATION DEPTH
	MINIMUM INCHES	MAXIMUM INCHES					
.472 .500 .563	.469 .498 .560	.475 .502 .566	99049 99050 99056	.236 .250 .250	.331 .344 .391	.787 .610 .750	.472 2.000 1.831
.591 .625 .669	.589 .623 .667	.593 .627 .671	99059 99062 99068	.197 .313 .313	.354 .406 .433	.750 .750 .875	.425 2.000 2.000
.684 .706 .750	.682 .704 .748	.686 .709 .752	99060 99082 99076	.313 .313 .313	.438 .438 .438	1.063 1.063 .945	2.000 1.811 2.000
.760 .781 .787	.759 .780 .785	.761 .784 .789	99081 99080 99078	.313 .313 .313	.438 .438 .433	.938 .935 .930	2.000 2.000 2.000
.859 .866 .875	.857 .861 .873	.861 .866 .877	99086 99085 99087	.250 .315 .313	.373 .472 .438	1.155 1.188 1.094	2.000 1.813 2.000
.969 .969 .984	.966 .966 .982	.970 .970 .986	99094 99096 99098	.313 .625 .313	.438 .719 .433	1.130 1.130 1.300	2.000 2.000 2.000
1.000 1.024 1.063	.998 1.019 1.060	1.002 1.024 1.064	99100 99103 99106	.313 .313 .313	.438 .472 .438	1.219 1.312 1.320	2.000 1.813 2.813
1.089 1.102 1.125	1.087 1.100 1.123	1.091 1.104 1.127	99108 99111 99112	.313 .375 .313	.438 .500 .438	1.406 1.375 1.500	.625 2.813 .688



SPEEDI-SLEEVES SIZE LISTING — INCHES (Continued)

REF SHAFT	"A" SHAFT DIAMETER RANGE		STOCK NUMBER	"X" WIDTH ON SHAFT (INCHES ± .031)	"Y" OVERALL WIDTH (INCHES ± .031)	"D" FLANGE DIAMETER (INCHES ± .063)	"Z" INSTALLATION DEPTH
	MINIMUM INCHES	MAXIMUM INCHES					
1.156	1.154	1.158	99120	.375	.500	1.350	.688
1.175	1.173	1.178	99122	.313	.438	1.575	.688
1.181	1.179	1.184	99114	.315	.433	1.400	.688
1.188	1.185	1.190	99118	.313	.438	1.400	.688
1.219	1.216	1.222	99123	.313	.433	1.563	.625
1.240	1.237	1.243	99141	.315	.438	1.540	.688
1.250	1.247	1.253	99125	.313	.438	1.500	.688
1.260	1.257	1.263	99128	.315	.438	1.500	.688
1.313	1.308	1.314	99129	.250	.375	1.600	.813
1.313	1.310	1.316	99131	.500	.625	1.594	1.813
1.375	1.371	1.377	99133	.313	.438	1.638	.813
1.375	1.371	1.377	99138	.500	.625	1.638	.813
1.375	1.375	1.381	99139	.512	.630	1.638	.813
1.417	1.412	1.417	99146	.512	.669	1.690	.984
1.438	1.432	1.438	99143	.563	.688	1.690	1.016
1.438	1.435	1.441	99144	.375	.500	1.781	1.016
1.496	1.490	1.496	99147	.512	.669	1.781	.984
1.500	1.497	1.503	99150	.375	.500	1.781	1.016
1.500	1.497	1.503	99149	.563	.688	1.781	1.016
1.523	1.520	1.526	99152	.438	.563	1.859	1.016
1.552	1.549	1.555	99155	.438	.563	1.859	1.016
1.563	1.559	1.565	99156	.563	.688	1.859	1.016
1.578	1.572	1.578	99157	.512	.630	1.850	1.023
1.605	1.602	1.608	99160	.500	.641	1.938	1.000
1.625	1.622	1.628	99161	.313	.438	1.875	1.016
1.625	1.623	1.628	99162	.563	.688	1.875	.813
1.650	1.647	1.653	99169	.563	.689	2.087	.827
1.688	1.684	1.690	99168	.563	.688	1.906	.875
1.688	1.685	1.691	99167	.313	.438	1.906	.875
1.719	1.715	1.721	99171	.563	.688	2.031	.813
1.739	1.736	1.742	99170	.375	.500	2.063	.813
1.750	1.747	1.753	99172	.375	.500	2.055	.813
1.750	1.747	1.753	99180	.531	.625	2.063	.812
1.750	1.747	1.753	99174	.563	.688	2.063	.813
1.750	1.747	1.753	99175	.750	.875	2.063	.813
1.766	1.761	1.767	99176	.563	.688	2.063	.813
1.772	1.769	1.775	99177	.551	.669	2.087	.813
1.781	1.778	1.784	99179	.664	.800	2.125	1.125
1.813	1.809	1.815	99181	.563	.688	2.090	1.000
1.859	1.857	1.863	99185	.563	.688	2.156	1.000
1.866	1.866	1.872	99186	.889	1.025	2.188	1.000
1.875	1.872	1.878	99190	.175	.295	2.203	.744
1.875	1.872	1.878	99188	.295	.415	2.203	.744
1.875	1.872	1.878	99184	.375	.516	2.203	1.050
1.875	1.872	1.878	99187	.563	.688	2.203	1.000
1.891	1.887	1.893	99189	.551	.668	2.205	.984
1.912	1.909	1.915	99192	.375	.500	2.219	1.000
1.938	1.934	1.940	99193	.563	.688	2.219	1.000
1.969	1.965	1.971	99196	.551	.668	2.244	.984
1.980	1.977	1.983	99198	.563	.704	2.313	1.050
2.000	1.997	2.003	99199	.563	.688	2.406	1.000
2.000	1.997	2.003	99200	.875	1.000	2.406	1.000
2.063	2.057	2.063	99205	.781	.938	2.469	1.375
2.125	2.123	2.128	99210	.500	.750	2.422	1.281
2.125	2.124	2.130	99212	.781	.938	2.422	1.375
2.165	2.162	2.168	99215	.787	.905	2.441	1.250
2.188	2.186	2.192	99218	.781	.938	2.500	1.313
2.230	2.227	2.233	99229	.500	.625	2.531	1.313
2.230	2.227	2.233	99230	.781	.906	2.531	1.250
2.240	2.237	2.243	99226	.764	.900	2.563	1.250
2.250	2.249	2.255	99225	.781	.938	2.531	1.313
2.250	2.249	2.255	99227	.313	.438	2.531	1.313
2.313	2.309	2.315	99231	.781	.938	2.688	1.375
2.328	2.327	2.333	99233	.750	.875	2.750	1.500
2.362	2.539	2.365	99235	.787	.905	2.785	1.375
2.375	2.369	2.375	99236	.781	.938	2.750	1.375



SPEEDI-SLEEVES SIZE LISTING — INCHES (Continued)

REF SHAFT	"A" SHAFT DIAMETER RANGE		STOCK NUMBER	"X" WIDTH ON SHAFT (INCHES ± .031)	"Y" OVERALL WIDTH (INCHES ± .031)	"D" FLANGE DIAMETER (INCHES ± .063)	"Z" INSTALLATION DEPTH
	MINIMUM INCHES	MAXIMUM INCHES					
2.375	2.372	2.378	99238	.594	.750	2.750	1.375
2.375	2.374	2.380	99240	.526	.683	2.750	1.375
2.375	2.374	2.380	99237	.781	.938	2.750	1.375
2.438	2.434	2.440	99243	.781	.938	2.828	1.375
2.438	2.435	2.441	99242	.500	.625	2.828	1.425
2.492	2.489	2.495	99249	.781	.938	2.875	1.393
2.500	2.497	2.503	99253	.555	.650	2.820	.890
2.500	2.500	2.506	99248	.500	.656	2.828	1.393
2.500	2.500	2.506	99250	.781	.938	2.820	1.375
2.516	2.510	2.516	99251	.781	.906	2.828	1.438
2.559	2.556	2.562	99254	.787	.905	2.850	1.375
2.563	2.560	2.566	99256	.781	.938	2.850	1.375
2.598	2.595	2.602	99259	.781	.938	2.990	1.250
2.621	2.618	2.624	99261	.781	.938	3.047	1.375
2.625	2.621	2.627	99264	.781	.906	3.047	1.375
2.625	2.622	2.628	99260	.500	.625	3.047	1.375
2.625	2.625	2.631	99262	.781	.938	3.047	1.375
2.730	2.727	2.733	99268	.781	.906	3.125	1.313
2.743	2.740	2.746	99273	.781	.938	3.065	1.250
2.750	2.745	2.751	99274	.781	.938	3.125	1.250
2.750	2.747	2.753	99270	.781	.906	3.125	1.250
2.750	2.747	2.753	99267	1.438	1.625	3.075	1.625
2.750	2.750	2.756	99272	.406	.563	3.125	1.250
2.750	2.750	2.756	99275	.781	.938	3.125	1.250
2.750	2.750	2.756	99269	1.125	1.250	3.125	1.313
2.756	2.753	2.759	99276	.787	.945	3.125	1.250
2.813	2.809	2.815	99281	.594	.688	3.188	1.250
2.844	2.838	2.844	99282	.500	.656	3.225	1.250
2.869	2.866	2.872	99286	.781	.938	3.188	1.250
2.875	2.873	2.879	99287	.781	.938	3.219	1.250
2.938	2.937	2.943	99293	.781	.938	3.344	1.313
2.953	2.950	2.956	99294	.866	1.024	3.305	1.313
2.993	2.990	2.996	99298	.563	.688	3.359	1.375
2.993	2.990	2.996	99299	.813	1.000	3.350	1.281
3.000	2.997	3.003	99296	.813	.938	3.240	1.375
3.000	3.000	3.006	99300	.813	1.000	3.235	1.281
3.000	3.000	3.006	99303	.625	.813	3.345	1.063
3.011	3.008	3.014	99301	.500	.625	3.355	2.000
3.125	3.120	3.126	99311	.688	.813	3.531	2.000
3.125	3.120	3.126	99312	.813	1.000	3.531	2.000
3.125	3.124	3.131	99307	.551	.709	3.525	2.031
3.146	3.142	3.150	99313	.750	.886	3.540	1.375
3.149	3.146	3.153	99315	.827	.945	3.543	1.375
3.250	3.250	3.256	99324	.595	.719	3.575	1.375
3.250	3.250	3.256	99325	.813	1.000	3.585	1.375
3.250	3.250	3.256	99326	.688	.875	3.585	1.250
3.228	3.225	3.231	99328	.612	.800	3.585	1.750
3.250	3.247	3.253	99322	.813	1.000	3.594	1.375
3.310	3.307	3.313	99331	.813	1.000	3.688	1.375
3.342	3.337	3.346	99333	.827	.984	3.700	1.378
3.375	3.373	3.379	99338	.375	.500	3.688	1.410
3.375	3.373	3.379	99337	.813	1.000	3.695	1.375
3.438	3.435	3.441	99339	.781	.906	3.844	1.406
3.480	3.477	3.483	99340	.781	.906	3.835	1.406
3.500	3.500	3.506	99347	.313	.500	3.825	1.347
3.500	3.500	3.506	99350	.813	1.000	3.844	1.347
3.504	3.501	3.507	99349	.625	.813	3.844	1.348
3.543	3.540	3.546	99353	.526	.667	4.000	1.750
3.543	3.540	3.546	99352	.434	.538	4.000	1.813
3.543	3.540	3.546	99351	.710	.906	4.000	1.813
3.543	3.540	3.546	99354	.906	1.102	4.000	1.750
3.563	3.560	3.566	99356	.813	1.000	3.900	1.750
3.621	3.618	3.624	99360	.813	1.000	4.031	1.750
3.625	3.623	3.629	99363	.500	.625	4.025	1.750
3.625	3.623	3.629	99362	.813	1.000	4.031	1.750
3.688	3.684	3.690	99368	.313	.438	3.830	.875



SPEEDI-SLEEVES SIZE LISTING — INCHES (Continued)

REF SHAFT	"A" SHAFT DIAMETER RANGE		STOCK NUMBER	"X" WIDTH ON SHAFT (INCHES ± .031)	"Y" OVERALL WIDTH (INCHES ± .031)	"D" FLANGE DIAMETER (INCHES ± .063)	"Z" INSTALLATION DEPTH
	MINIMUM INCHES	MAXIMUM INCHES					
3.688	3.685	3.691	99365	.813	.938	4.025	1.750
3.730	3.727	3.733	99359	.469	.594	4.016	1.719
3.730	3.727	3.733	99366	.781	.906	4.025	1.750
3.740	3.737	3.743	99369	.827	.945	4.025	1.750
3.743	3.740	3.746	99374	.344	.500	4.031	1.750
3.743	3.740	3.746	99364	.469	.594	4.035	1.750
3.750	3.746	3.752	99376	.563	.688	4.025	1.750
3.750	3.750	3.756	99367	.344	.500	4.025	1.750
3.750	3.750	3.756	99372	.688	.875	4.020	1.875
3.871	3.868	3.874	99386	.813	1.000	4.185	1.875
3.875	3.873	3.879	99387	.813	1.000	4.219	1.875
3.938	3.935	3.941	99393	.813	1.000	4.313	2.050
4.000	3.998	4.006	99395	.600	.725	4.375	2.050
4.000	3.998	4.006	99399	.813	1.000	4.375	2.050
4.000	3.998	4.006	99400	.650	.775	4.375	1.375
4.094	4.090	4.098	99409	.787	.945	4.438	1.417
4.125	4.122	4.130	99412	.813	1.000	4.420	1.375
4.134	4.130	4.138	99413	.787	.906	4.470	1.378
4.188	4.183	4.191	99418	.813	1.000	4.500	1.375
4.234	4.226	4.234	99423	.781	.906	4.610	1.438
4.250	4.248	4.256	99424	.813	1.000	4.610	1.438
4.328	4.327	4.335	99435	.509	.650	4.921	1.250
4.375	4.370	4.378	99437	.813	1.000	4.750	1.650
4.406	4.401	4.409	99438	.748	.886	4.750	1.063
4.438	4.434	4.442	99439	1.000	1.142	4.813	1.313
4.500	4.496	4.504	99450	.813	1.000	4.900	1.250
4.527	4.523	4.531	99452	.813	.938	5.000	1.250
4.625	4.621	4.629	99463	1.000	1.250	5.063	1.375
4.625	4.621	4.629	99465	.438	.625	4.875	1.375
4.688	4.685	4.693	99468	.813	1.000	5.063	1.375
4.724	4.720	4.728	99473	.787	.984	5.110	1.260
4.750	4.746	4.754	99475	.500	.750	5.000	1.500
4.803	4.799	4.807	99472	.787	.945	5.177	1.260
4.875	4.871	4.879	99487	.625	.750	5.250	1.438
4.921	4.917	4.925	99492	1.024	1.260	5.400	1.438
5.000	4.998	5.006	99498	.688	.875	5.400	1.438
5.000	4.998	5.006	99499	.813	1.000	5.390	1.438
5.114	5.110	5.118	99494	.750	.938	5.493	1.181
5.125	5.117	5.125	99491	.866	.996	5.493	1.290
5.125	5.120	5.128	99513	.813	1.000	5.500	1.250
5.250	5.246	5.254	99525	.813	1.000	5.560	1.250
5.313	5.307	5.315	99533	.807	1.000	5.875	1.250
5.375	5.371	5.379	99537	.813	1.000	5.875	1.250
5.438	5.434	5.442	99548	1.500	1.688	5.750	1.875
5.472	5.472	5.480	99547	.563	.750	6.100	.938
5.500	5.498	5.506	99549	.813	1.000	5.938	1.250
5.512	5.508	5.516	99552	.807	1.000	5.945	1.250
5.734	5.726	5.734	99562	.563	.750	5.900	.938
5.750	5.746	5.754	99575	.813	1.000	6.180	1.750
5.875	5.871	5.879	99587	1.000	1.250	6.188	1.313
5.905	5.895	5.905	99595	1.024	1.181	6.260	1.338
5.938	5.934	5.942	99596	1.000	1.125	6.375	1.875
6.000	5.995	6.003	99601	.500	.750	6.360	1.750
6.000	5.995	6.003	99599	1.000	1.250	6.375	1.750
6.063	6.058	6.068	99605	1.024	1.181	6.375	1.299
6.097	6.092	6.102	99606	1.024	1.181	6.575	1.299
6.203	6.198	6.208	99620	.813	1.063	6.625	1.750
6.250	6.245	6.255	99625	1.031	1.250	6.625	1.750
6.299	6.289	6.299	99630	1.000	1.250	7.000	1.800
6.500	6.495	6.505	99650	1.000	1.250	7.000	1.750
6.688	6.683	6.693	99640	1.250	1.496	7.188	2.175
6.750	6.745	6.755	99675	.813	1.063	7.125	1.750
6.890	6.880	6.890	99687	1.102	1.260	7.362	1.378
7.000	6.995	7.005	99700	1.000	1.250	7.475	1.688
7.087	7.077	7.087	99721	1.300	1.496	7.500	1.752
7.250	7.244	7.254	99725	1.250	1.500	7.760	2.175



SPEEDI-SLEEVES SIZE LISTING — INCHES (Continued)

REF SHAFT	"A" SHAFT DIAMETER RANGE		STOCK NUMBER	"X" WIDTH ON SHAFT (INCHES ± .031)	"Y" OVERALL WIDTH (INCHES ± .031)	"D" FLANGE DIAMETER (INCHES ± .063)	"Z" INSTALLATION DEPTH
	MINIMUM INCHES	MAXIMUM INCHES					
7.283 7.453 7.500	7.273 7.444 7.495	7.283 7.454 7.505	99726 99745 99750	1.260 .813 .813	1.496 1.000 1.000	7.834 7.860 7.875	2.165 1.250 1.250
7.609 7.750 7.875	7.600 7.745 7.869	7.610 7.755 7.879	99760 99775 99787	1.500 1.000 1.359	1.750 1.313 1.500	8.250 8.270 8.375	1.875 1.875 1.750
7.938 8.000	7.933 7.995	7.943 8.005	99799 99800	1.000 1.000	1.250 1.250	8.375 8.375	1.750 1.750