

PUMP MANUFACTURERS
CROSS REFERENCE GUIDE

SEAL	SHAFT	OEM P/N
SIERRA ELECTRIC		
80304	0.375	40-096001

SEAL	SHAFT	OEM P/N
SIMMONS		
200	0.625	0.625
451	0.625	0.625

SEAL	SHAFT	OEM P/N
SKIDMORE WEBSTER ELECTRIC		
10507	0.500	37403
10658	0.625	50625-1
10658V	0.625	50625-6
100	0.625	51294
536	0.625	53497
10826	0.875	50625-2
10826V	0.875	50625-7
356	1.125	50625-3
356V	1.125	50625-8
205	1.750	50625-5

SEAL	SHAFT	OEM P/N
SMITH, AO		
162	0.500	55831 64135
506	0.500	9708-1 9708-4
359	0.625	0.625
362	0.750	0.750

SEAL	SHAFT	OEM P/N
SMITH-LOVELESS		
1103	1.125	1.125
1104	1.375	1.375
1105	1.875	28A100A F60A119A
11847	1.875	H87A28A
1102	2.125	2.125
1107	2.125	28A101A F60A120A
1106	2.625	2.625
13031	3.000	28A238A F60A121A

SEAL	SHAFT	OEM P/N
SOUTHERN INDUSTRIES		
200	0.625	0.625
201	0.750	0.750

SEAL	SHAFT	OEM P/N
SPERRY VICKERS		
12612	2.625	322897

SEAL	SHAFT	OEM P/N
SPP PUMPS STERLING		
356	1.125	1.125
529V	1.125	1.125
758	1.500	1.500
553V	1.500	1.500
267	2.000	2.000
332V	2.000	2.000

SEAL	SHAFT	OEM P/N
STA-RITE INDUSTRIES WICOR		
80301	0.375	U109-173
60310	0.375	U109-264
244N	0.437	U109-95
663	0.500	U109-100
60523	0.500	U109-103
10553	0.500	U109-181
80529	0.500	U109-214
80516	0.500	U109-321
80523	0.500	U109-333
80529	0.500	U109-68
163	0.500	U109-84
536V	0.625	U109-101
118	0.625	U109-102
957	0.625	U109-106SS
118	0.625	U109-118
1000	0.625	U109-136 U109-136SS
118	0.625	U109-308
118V	0.625	U109-326 U109-326SS
957	0.625	U109-48SS
100	0.625	U109-6A
896	0.625	U109-83SS
118V	0.625	U109-87 U109-91SS
896	0.625	U109-93SS
201	0.750	U109-122
877	0.750	U109-267
771	0.750	U109-81
128	0.750	U109-99
775	0.875	U109-170
774V	0.875	U109-222
235	1.000	U109-47
866	1.125	U109-305
866V	1.125	U109-307
866	1.125	U109-96

SEAL	SHAFT	OEM P/N
866	1.125	U109-96SS
381	1.250	U109-220
546	1.250	U109-329
546V	1.250	U109-330
535	1.750	U109-251
535V	1.750	U109-306
327	2.125	U109-252
838	2.750	U109-302

SEAL	SHAFT	OEM P/N
STERLING MACHINERY		
863N	0.625	6696
145	0.750	0.750
175	0.750	0.750
201	0.750	0.750
564	0.750	0.750
358	0.750	1616
861N	1.125	6697
176	1.250	1.250
185	1.250	1636
178	1.375	1.375
209	1.375	1.375
177	1.375	1706
862N	1.437	7006
216	1.500	1.500
213	1.750	1.750
217	1.750	1.750

SEAL	SHAFT	OEM P/N
STERLING PUMP		
60813V	0.875	081-00024

SEAL	SHAFT	OEM P/N
STEVENS PUMP		
200	0.625	0.625

SEAL	SHAFT	OEM P/N
STOW		
60758	0.750	7971-406
777	1.000	7971-407

SEAL	SHAFT	OEM P/N
STRANCO		
60504	0.500	0.500

SEAL	SHAFT	OEM P/N
SUNDSTRAND		
168	0.500	Logan Pump 385373

PUMP MANUFACTURERS
CROSS REFERENCE GUIDE

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SEAL	SHAFT	OEM P/N
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356	1.125	1.125
529V	1.125	1.125
758	1.500	1.500
553V	1.500	1.500
267	2.000	2.000
332V	2.000	2.000

SEAL	SHAFT	OEM P/N
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80301	0.375	U109-173
60310	0.375	U109-264
244N	0.437	U109-95
663	0.500	U109-100
60523	0.500	U109-103
10553	0.500	U109-181
80529	0.500	U109-214
80516	0.500	U109-321
80523	0.500	U109-333
80529	0.500	U109-68
163	0.500	U109-84
536V	0.625	U109-101
118	0.625	U109-102
957	0.625	U109-106SS
118	0.625	U109-118
1000	0.625	U109-136 U109-136SS
118	0.625	U109-308
118V	0.625	U109-326 U109-326SS
957	0.625	U109-48SS
100	0.625	U109-6A
896	0.625	U109-83SS
118V	0.625	U109-87 U109-91SS
896	0.625	U109-93SS
201	0.750	U109-122
877	0.750	U109-267
771	0.750	U109-81
128	0.750	U109-99
775	0.875	U109-170
774V	0.875	U109-222
235	1.000	U109-47
866	1.125	U109-305
866V	1.125	U109-307
866	1.125	U109-96

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SEAL	SHAFT	OEM P/N
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145	0.750	0.750
175	0.750	0.750
201	0.750	0.750
564	0.750	0.750
358	0.750	1616
861N	1.125	6697
176	1.250	1.250
185	1.250	1636
178	1.375	1.375
209	1.375	1.375
177	1.375	1706
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216	1.500	1.500
213	1.750	1.750
217	1.750	1.750

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60813V	0.875	081-00024

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200	0.625	0.625

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60758	0.750	7971-406
777	1.000	7971-407

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STRANCO		
60504	0.500	0.500

SEAL	SHAFT	OEM P/N
SUNDSTRAND		
168	0.500	Logan Pump 385373

SEAL SHAFT OEM P/N

SUNSET EQUIPMENT

299 0.625 0.625

SUPERIOR EQUIPMENT

202V 0.625 0.625

SUPERIOR INDUSTRIES

60650 0.625 0.625

SWIMQUIP

201 0.750 37407-0019

TACO

170 0.375 120-029
 160 0.375 120-125
 163 0.500 106-031
 168 0.500 121-008
 106 0.500 131-013
 633 0.625 170-102RP
 200V 0.625 172-006
 200 0.625 172-009
 172-017
 112 0.750 142-043
 360 1.000 170-021
 170-095
 754 1.000 900-021
 204 1.125 900-024
 264 1.250 840-011
 371 1.500 1.500
 305 1.500 862-029
 479 2.000 2.000

TAIT

162 0.500 W6476
 200 0.625 0.625
 516 0.625 1195A1
 920 0.625 24722
 922 0.625 24798
 851 0.750 1195A2
 10713 0.750 16519
 921 0.750 24820
 201 0.750 25062
 703 0.875 24584
 357 1.000 1.000
 235 1.000 24963

SEAL SHAFT OEM P/N

256 1.250 W-16524
 805 1.375 16538
 267 2.000 2.000

TECUMSEH

350 2.375 K-509-9

TEEL

359 0.625 0.625
 447 0.625 0.625
 201 0.750 1P831

**TERRA PRODUCTS
(See Banjo)**

THERMO KING

522 0.625 TX-060-000
 159N 1.000 22-203
 22-378
 517N 1.250 1210A02G01
 244 0.437 TX-012000 w/TX-019000

**THRUSH
AMTROL INC**

244 0.437 w/AT-050000
 106 0.500 0.500
 163 0.500 0.500
 10553 0.500 TX-018000 w/TX-019000
 132 0.625 0.625
 600 0.625 AA-190
 600 0.625 AA-199
 552V 0.625 TX-022000 w/TX-023000
 10693V 0.625 TX-022000 w/TX-024000
 303 0.875 0.875
 774V 0.875 TX-026000 w/TX-027000
 617V 0.875 TX-026000 w/TX-028000
 355 1.125 1.125
 801V 1.125 TX-030000 w/TX-031000
 529V 1.125 TX-030000 w/TX-032000
 618V 1.250 TX-052000 w/TX-053000
 598V 1.250 TX-052000 w/TX-054000
 186 1.375 1.375
 805V 1.375 TX-034000 w/TX-035000
 547V 1.375 TX-034000 w/TX-036000
 816V 1.500 TX-038000 w/TX-039000
 553V 1.500 TX-038000 w/TX-040000
 818V 1.625 TX-056000 w/TX-057000
 544V 1.625 TX-056000 w/TX-058000
 550V 1.750 TX-048000 w/TX-049000

SEAL SHAFT OEM P/N

436V 1.750 TX-048000 w/TX-050000

TOLDEO

501 0.625 A14067
 912 1.000 SA-18953

TRANE

190 0.500 100630
 344N 1.250 X10060019
 192N 1.500 100634-00
 332 2.000 100635-00

**TRANSICOLD
CARRIER**

358V 0.750 0.750
 548V 1.000 1.000
 236 1.000 SF20-317

TRICLOVER

157 0.750 1S-400-25
 11195 1.125 1.125
 939 1.500 1.500

TRIPLEX HEATING

10301 0.375 0.375
 165 0.500 0.500
 504 0.500 0.500
 260 0.625 0.625

TRI-ROTOR

10794V 0.750 GJ-6191
 11280V 1.250 GJ-3997

**TRUPAR
DURO**

200 0.625 0.625
 508 0.625 5485
 102 0.625 B-170
 451 0.625 B-2883
 102 0.625 P-11048
 507 0.625 P-1190
 201 0.750 0.750
 851E 0.750 0.750

TUTHILL

10410N 0.437 2LPF9-7010

PUMP MANUFACTURERS
CROSS REFERENCE GUIDE

SEAL	SHAFT	OEM P/N
552	0.625	2C1B9
552N	0.625	2C1B9-5
552V	0.625	2C1B9-7
552E	0.625	2C1B9-8
768	0.750	3C1B9
768N	0.750	3C1B9-5
768V	0.750	3C1B9-7
768E	0.750	3C1B9-8
252	1.000	5C1B9
499N	1.000	5C1B9-5
499V	1.000	5C1B9-7
499E	1.000	5C1B9-8

UNIFLOW

200	0.625	0.625
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UNIMAC INC

43201	3.250	3.250
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UNIVERSAL ELECTRIC

165	0.500	24P3-1 24P3-2
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US MOTOR

358	0.750	PUL-2112
549	1.125	1.125
320	1.500	1.500

VIC CLEANING MACHINE

162	0.500	22-907
701	0.625	42-607

**VICAN (VIKING CANADA)
IDEX**

168	0.500	0.500
1002V	0.500	0.500
1156	0.750	0.750
10695V	0.750	0.750
358	0.750	0.750
358V	0.750	0.750
10767	0.750	0.750
235	1.000	1.000
235V	1.000	1.000
357	1.000	1.000
357V	1.000	1.000
356	1.125	1.125
356V	1.125	1.125

SEAL	SHAFT	OEM P/N
355	1.125	1.125
355V	1.125	1.125
185	1.250	1.250
185V	1.250	1.250
381	1.250	1.250
381V	1.250	1.250
756	1.250	1.250
756V	1.250	1.250
249	1.250	1.250
249V	1.250	1.250
177	1.375	1.375
177V	1.375	1.375
186	1.375	1.375
186V	1.375	1.375
705-21	1.437	1.437
11427	1.437	1.437
237	1.750	1.750
288	1.750	1.750

VICO

360	1.000	1.000
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**VIKING PUMP (HOUDAILLE)
IDEX**

170	0.375	0.375
106	0.500	0.500
10533	0.500	2-471-006-999
164	0.500	2-471-008-999
164	0.500	F-566
633	0.625	0.625
10655	0.625	2-472-014-999
10655V	0.625	2-472-015-999
10708	0.750	2-473-008-999
10708N	0.750	2-473-009-999
10708V	0.750	2-473-018-999
112	0.750	H-865
11028	1.000	2-475-001-999
357	1.000	2-475-002-999
11022	1.000	2-475-004-999
11028N	1.000	2-475-005-999
11022V	1.000	2-475-009-999
11028V	1.000	2-475-010-999
11113	1.125	2-476-001-999
11113V	1.125	2-476-012-999
11116V	1.125	2-476-028-999
756	1.250	1.250
11235	1.250	2-477-015-999
11235V	1.250	2-477-020-999
11412N	1.437	2-477-006-999
11410	1.437	2-477-032-999
11410N	1.437	2-477-037-999

SEAL	SHAFT	OEM P/N
11410V	1.437	2-477-038-999
11606V	1.625	2-478-008-999
11606	1.625	2-478-011-999

VULCAN HART DISHWASHER

508	0.625	106410
236	1.000	94049
360	1.000	97505
356	1.125	97522

WACKER CORP

185	1.250	51757
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WATTS

680	0.625	0.625
1000	0.625	0.625

WAUKESHA MOTORS

642	0.625	120320
10767	0.750	0.750
112	0.750	0.750
201	0.750	152243-B
1522	0.750	810350
685	0.875	108025

WAYNE HOME EQUIPMENT

377	0.375	15668
165	0.500	15611 w/16712
162	0.500	15717
150	0.500	16712
298	0.500	16715
150	0.500	16722
162	0.500	56106
163	0.500	56108
163V	0.500	56111
500N	0.562	15288-15488
970	0.625	15301
971	0.625	15529
100	0.625	16723
1000	0.625	16727
642	0.625	16727
200	0.625	56104
1000	0.625	56109
1522	0.750	16725
201	0.750	56105
201V	0.750	56112

PUMP MANUFACTURERS
CROSS REFERENCE GUIDE

SEAL	SHAFT	OEM P/N
262V	1.750	Q26-179-Y6 Q26-179-Y7
205	1.750	Q26-217-Y2 Q26-217-Y3
366	1.750	Q26-217-Y34 Q26-217-Y35
366V	1.750	Q26-217-Y6 Q26-217-Y7
479	2.000	Q26-180-Y2 Q26-180-Y3
843	2.000	Q26-180-Y34 Q26-180-Y35
843V	2.000	Q26-180-Y6 Q26-180-Y7
278	2.375	Q26-181-Y2 Q26-181-Y3
350	2.375	Q26-181-Y34 Q26-181-Y35
350V	2.375	Q26-181-Y6 Q26-181-Y7
279	2.500	Q26-182-Y2 Q26-182-Y3
349	2.500	Q26-182-Y34 Q26-182-Y35
349V	2.500	Q26-182-Y6 Q26-182-Y7
324	3.000	Q26-199-Y2 Q26-199-Y3
475	3.000	Q26-199-Y34 Q26-199-Y35
475V	3.000	Q26-199-Y6 Q26-199-Y7

WELCH MFG

60751	0.750	0.750
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WESTINGHOUSE

663	0.500	69782
358V	0.750	65046

WET INSTITUTE

1000	0.625	0.625
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WHEELER

218	0.625	0.625
680	0.625	0.625

WHITE PUMP

200	0.625	0.625
701	0.625	0.625

WMC

200	0.625	0.625
201	0.750	0.750

**WORTHINGTON (IDP)
INGERSOLL DRESSER PUMP**

558N	0.562	0.562 0.562
507	0.625	0.625
200	0.625	43008
359	0.625	50675
200V	0.625	55016
933	0.625	55955
528	0.625	PO-2098
157	0.750	0.750
201	0.750	0.750
564	0.750	24439
565	0.750	26493
208	0.875	0.875
936	0.875	24440
560	0.937	26456 31446
370	1.000	1.000
282	1.125	51610
282	1.125	53129
867	1.125	PO-2869 w/PO-2893
866	1.125	PO-2869 w/PO-2897
529	1.125	PO-2885 w/PO-2893
801	1.125	PO-2885 w/PO-2897
529V	1.125	PO-2889 w/PO-2893
801V	1.125	PO-2889 w/PO-2897
264	1.250	31448
561	1.375	26457 50498
865	1.375	PO-2870 w/PO-2894
864	1.375	PO-2870 w/PO-2898
547	1.375	PO-2886 w/PO-2894
805	1.375	PO-2886 w/PO-2898
547V	1.375	PO-2890 w/PO-2894
805V	1.375	PO-2890 w/PO-2898
258	1.500	51611 w/53130
395	1.500	51708 w/53130
822	1.625	51613 516132
555	1.750	26458

SEAL	SHAFT	OEM P/N
		50499
859	1.750	PO-2871 w/PO-2895
858	1.750	PO-2871 w/PO-2899
436	1.750	PO-2887
550	1.750	PO-2887 w/PO-2899
436	1.750	PO-2895
568N	1.750	VR-3292B
743	1.875	1.875
513	1.875	31449
477	2.000	31450 51614 w/53133
576N	2.000	SEL-105
582	2.000	SEL-157
556	2.125	26459 50500
857	2.125	PO-2872 w/PO-2896
856	2.125	PO-2872 w/PO-2900
855	2.125	PO-2888 w/PO-2896
854	2.125	PO-2888 w/PO-2900
570N	2.125	VR-4292B
481N	2.500	32745
571N	2.625	VR-5292B
475	3.000	55426 w/55425

**YEOMANS PUMP (YCC)
YEOMANS CHICAGO CORP**

200	0.625	0.625
200V	0.625	0.625
60650V	0.625	0.625
529V	1.125	1.125
356	1.125	52-1-16
255	1.187	1.187
185	1.250	1.250
185V	1.250	1.250
466	1.250	1.250
466V	1.250	1.250
383V	1.250	C3-2-12
186	1.375	1.375
677	1.375	1.375
553V	1.500	1.500
758	1.500	52-2-16
449	1.750	1.750
332V	2.000	2.000
267	2.000	52-3-16
887	2.125	C3-2-44-121

ZOELLER

160	0.375	0.375
165	0.500	34-035

Installation Instructions: Mechanical Shaft Sleeves

Caution: *Protect Mechanical Seal Faces From Damage, Dirt and Finger Marks*

- Disassemble pump housing to expose old seal. This may include removing the suction cover, impeller, pump volute and back-plate of the pump. New gaskets and/or o-rings should be on hand to replace existing ones. Care must be taken to remember the correct manner pump is constructed for reassembly.

Note: the replacement seal must be installed in the same manner as the existing seal. Otherwise, the new seal will not function properly.

- Remove the old seal rotary and seat. Take care to prevent scratching the shaft or seat counter-bore during removal. It may be necessary to remove the seat housing to push the seat out of the seat counter-bore.
Clean the shaft and seat counter-bore, using a fine emery cloth to remove minor rust or burrs. If these components are damaged, replacement may be necessary.

Note: if Pac Ease is not available, use a solution of liquid dish soap in water as lubricant. Never use grease, oil, WD-40, silicone or other lubricant as these lubricants will cover the seal faces and/or damage the rubber portions of the seal causing improper function or premature failure

Type 16, 21, 31, 51 & 52	Type 68 & 29	Type 8 & 9
<ul style="list-style-type: none"> • Lubricate the seat-counter bore and seat outer diameter (OD) with Pac Ease, using care to keep lubricant off the seal faces. Use the cardboard spacer in the packaging to press the seat fully into the seat counter-bore. Clean any excess lubricant from the seat face. • Lubricate the shaft and inner diameter (ID) of the rotary head. Slide the rotary head down the shaft, cleaning any excess lubricant from the seal face, until the seal face mates with the seat face. Use care to keep the drive band from dislodging during installation and avoid using any excessive force or hammering on the rotary head. • Type 16: reinstallation of the impeller will compress seal to correct working length (WL). • Type 21, 31, 51 & 52: install spring on rotary head, making sure to install shell adapter on the 51 and 52. Install spring retainer (if applicable) and ensure that the spring is installed parallel to the shaft axis and is not hung up on a shoulder in the shaft or the back of the impeller. 	<ul style="list-style-type: none"> • Lightly coat the seal counter-bore with a sealant such as Permatex (Pipe Dope is not recommended). Press seal head into counter-bore until fully seated, exerting pressure against the shell only. An assembly tool such as an arbor press is recommended to facilitate installation. Clean the seal face. • Lubricate the shaft and inner diameter (ID) of the seal seat. Slide the seat down the shaft, cleaning any excess lubricant from the seal face, until the seat face mates with the seal face. Use care to keep the seat elastomer from dislodging during installation and avoid using any excessive force or hammering on the seat. • If the seal is shaft mounted and the seat is installed in a stationary bore, follow the directions for the Type 16, 21, 31, 51 & 52 seals. 	<ul style="list-style-type: none"> • Install seat as with Type 16, 21, 31, 51 & 52 if seat is o-ring or cup mount. Otherwise, install as required by pump configuration (i.e., clamped in or other special configuration.) Clean any excess lubricant from the seat face. • Lubricate the shaft and inner diameter (ID) of the rotary head. Slide the rotary head down the shaft, cleaning any excess lubricant from the seal face, until the seal face mates with the seat face. • Compress seal to scribe line and tighten set screws. • Type 9: remove the clips from the outside of the shell to allow the springs to apply pressure between the faces. Discard clips. <p>Note: do not remove the clips from a Type 9 until the rotary is set-screwed to the shaft. These clips keep the Teflon wedge from being compressed before the seal is installed.</p>

- Reassemble pump, replacing gaskets and o-rings as necessary.

Note: Prime pump prior to restarting. Do not run the pump dry, as this will damage the seal.