

SHAFT REFERENCE GUIDE FOR CATERPILLAR VANE PUMPS

Caterpillar Part No.	Shaft Length	Spline Major Dia.	External Spline Information	Spline 2 Information	Spline 3 Information
4D0991	135.738 mm (5.344 in)	25.324 mm (.997 in)	7 Teeth	15 Teeth	-
6J9296	136.144 mm (5.360 in)	19.025 mm (.749 in)	Use Key 1B8708	30 Teeth	-
4T8370	136.271 mm (5.365 in)	19.025 mm (.749 in)	11 Teeth	30 Teeth	-
1H7057	139.700 mm (5.500 in)	19.025 mm (.749 in)	11 Teeth	12 Teeth	-
8F8543	153.187 mm (6.031 in)	19.025 mm (.749 in)	11 Teeth	12 Teeth	-
3J7995	160.325 mm (6.312 in)	31.394 mm (1.236 in)	14 Teeth	12 Teeth	-
2D0597	160.350 mm (6.313 in)	19.025 mm (.749 in)	11 Teeth	12 Teeth	-
4D1509	160.350 mm (6.313 in)	19.025 mm (.749 in)	11 Teeth	12 Teeth	-
684139	171.831 mm (6.765 in)	19.050 mm (.750 in)	Use Key 619151	30 Teeth	-
8M3961	173.025 mm (6.812 in)	24.435 mm (.962 in)	Taper W/Nut	15 Teeth	-
1U4788	177.800 mm (7.000 in)	22.174 mm (.873 in)	13 Teeth	40 Teeth	-
6E3207	177.800 mm (7.000 in)	22.225 mm (.875 in)	Use Key 1B8714	40 Teeth	-
8J8624	184.807 mm (7.288 in)	24.028 mm (.948 in)	22 Teeth	40 Teeth	-
7J8229	185.750 mm (7.313 in)	31.874 mm (1.247 in)	14 Teeth	37 Teeth	-
6J5921	187.325 mm (7.375 in)	25.121 mm (.989 in)	11 Teeth	40 Teeth	-
6E3206	191.688 mm (7.546 in)	22.250 mm (.876 in)	Use Key 669598	40 Teeth	-
9J0442	193.319 mm (7.611 in)	35.560 mm (1.400 in)	22 Teeth	21 Teeth	-
8J8823	194.005 mm (7.638 in)	24.028 mm (.948 in)	22 Teeth	40 Teeth	-
858973	195.250 mm (7.687 in)	15.875 mm (.625 in)	Taper W/Nut	40 Teeth	-
1U3842	199.619 mm (7.859 in)	19.558 mm (.770 in)	Taper W/Nut	40 Teeth	-
9J5096	206.146 mm (8.116 in)	31.217 mm (1.229 in)	14 Teeth	40 Teeth	-
9T1340	207.721 mm (8.178 in)	31.217 mm (1.229 in)	14 Teeth	37 Teeth	-
1U3474	210.744 mm (8.297 in)	31.217 mm (1.229 in)	14 Teeth	40 Teeth	-
4J0974	210.820 mm (8.300 in)	19.050 mm (.750 in)	Taper W/Nut	40 Teeth	-
5J3976	211.150 mm (8.313 in)	31.140 mm (1.226 in)	14 Teeth	15 Teeth	-
8J1714	214.325 mm (8.438 in)	29.032 mm (1.143 in)	13 Teeth	37 Teeth	-
2D1520	214.706 mm (8.453 in)	19.025 mm (.749 in)	11 Teeth	14 Teeth	12 Teeth
4D6837	214.706 mm (8.453 in)	19.025 mm (.749 in)	11 Teeth	12 Teeth	-

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8J2098	217.526 mm (8.564 in)	31.217 mm (1.229 in)	14 Teeth	30 Teeth	-
1U3501	221.844 mm (8.734 in)	19.558 mm (.770 in)	Taper W/Nut	40 Teeth	-
3J1443	223.850 mm (8.813 in)	21.742 mm (.856 in)	Taper W/Nut	15 Teeth	-
4J2088	225.425 mm (8.875 in)	30.480 mm (1.200 in)	14 Teeth	37 Teeth	-
9J5090	225.425 mm (8.875 in)	31.394 mm (1.236 in)	14 Teeth	37 Teeth	-
3D8157	229.387 mm (9.031 in)	31.623 mm (1.245 in)	14 Teeth	37 Teeth	-
9J8205	232.613 mm (9.158 in)	21.819 mm (.869 in)	Taper W/Nut	37 Teeth	-
6E3248	234.594 mm (9.236 in)	31.699 mm (1.248 in)	14 Teeth	14 Teeth	-
6E3218	234.594 mm (9.236 in)	31.699 mm (1.248 in)	14 Teeth	14 Teeth	-
5H3181	235.737 mm (9.281 in)	29.261 mm (1.152 in)	13 Teeth	13 Teeth	12 Teeth
4J4833	236.220 mm (9.300 in)	29.210 mm (1.150 in)	13 Teeth	40 Teeth	-
2J7765	237.236 mm (9.340 in)	31.394 mm (1.236 in)	14 Teeth	14 Teeth	-
6E3211	238.125 mm (9.375 in)	24.130 mm (.950 in)	37 Teeth	14 Teeth	-
540422	240.487 mm (9.468 in)	19.025 mm (.749 in)	13 Teeth	40 Teeth	12 Teeth
9J5093	240.487 mm (9.468 in)	22.174 mm (.873 in)	13 Teeth	40 Teeth	30 Teeth
7J8228	240.487 mm (9.468 in)	22.174 mm (.873 in)	13 Teeth	40 Teeth	30 Teeth
4J1399	242.341 mm (9.541 in)	29.032 mm (1.143 in)	13 Teeth	40 Teeth	-
6J2422	242.418 mm (9.544 in)	31.699 mm (1.248 in)	14 Teeth	44 Teeth	-
9J5100	245.643 mm (9.671 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	-
9M9964	245.643 mm (9.671 in)	31.394 mm (1.236 in)	14 Teeth	14 Teeth	-
6J7458	249.504 mm (9.823 in)	18.923 mm (.745 in)	Taper W/Nut	38 Teeth	30 Teeth
6J1540	253.492 mm (9.980 in)	31.750 mm (1.250 in)	14 Teeth	40 Teeth	-
540430	254.381 mm (10.015 in)	22.225 mm (.875 in)	Use Key 669596	40 Teeth	30 Teeth
1U3881	254.508 mm (10.020 in)	31.217 mm (1.229 in)	14 Teeth	40 Teeth	30 Teeth
5J1883	256.286 mm (10.090 in)	24.867 mm (.979 in)	11 Teeth	40 Teeth	30 Teeth
9J5089	259.486 mm (10.216 in)	18.923 mm (.745 in)	11 Teeth	40 Teeth	30 Teeth
6E3216	259.994 mm (10.236 in)	39.802 mm (1.567 in)	Use Key 1K2550	14 Teeth	-
7J1779	261.391 mm (10.291 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	-

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9J1277	270.637 mm (10.655 in)	40.818 mm (1.607 in)	16 Teeth	27 Teeth	-
3K8780	272.390 mm (10.724 in)	31.623 mm (1.245 in)	14 Teeth	15 Teeth	12 Teeth
9T7766	273.558 mm (10.770 in)	19.050 mm (.750 in)	Taper W/Nut	40 Teeth	30 Teeth
9J5087	273.558 mm (10.770 in)	31.699 mm (1.248 in)	14 Teeth	40 Teeth	30 Teeth
9J5104	273.558 mm (10.770 in)	31.217 mm (1.229 in)	14 Teeth	40 Teeth	30 Teeth
5J2346	273.558 mm (10.770 in)	19.050 mm (.750 in)	Taper W/Nut	40 Teeth	12 Teeth
1U3973	276.250 mm (10.876 in)	31.217 mm (1.229 in)	14 Teeth	37 Teeth	30 Teeth
9J5091	276.282 mm (10.956 in)	31.217 mm (1.229 in)	14 Teeth	37 Teeth	30 Teeth
540427	278.349 mm (10.998 in)	31.699 mm (1.248 in)	14 Teeth	37 Teeth	30 Teeth
8J6886	280.416 mm (11.040 in)	31.217 mm (1.229 in)	14 Teeth	37 Teeth	40 Teeth
9J5086	280.441 mm (11.041 in)	31.140 mm (1.226 in)	14 Teeth	14 Teeth	-
6E3266	284.175 mm (11.188 in)	31.699 mm (1.248 in)	14 Teeth	37 Teeth	40 Teeth
4T5704	284.175 mm (11.188 in)	27.483 mm (1.082 in)	14 Teeth	37 Teeth	40 Teeth
4K0411	287.071 mm (11.302 in)	31.217 mm (1.229 in)	14 Teeth	37 Teeth	12 Teeth
8J1014	292.887 mm (11.531 in)	43.713 mm (1.721 in)	13 Teeth	43 Teeth	-
4J3449	293.141 mm (11.541 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	-
658094	293.824 mm (11.568 in)	31.750 mm (1.250 in)	Use Key 6E3251	37 Teeth	12 Teeth
5J1571	297.888 mm (11.720 in)	31.217 mm (1.229 in)	14 Teeth	37 Teeth	40 Teeth
9J5101	297.888 mm (11.720 in)	31.217 mm (1.229 in)	14 Teeth	37 Teeth	40 Teeth
9J5095	297.993 mm (11.732 in)	31.217 mm (1.229 in)	14 Teeth	37 Teeth	30 Teeth
6E3237	298.450 mm (11.750 in)	19.050 mm (.750 in)	Use Key 6E3251	37 Teeth	40 Teeth
3J9003	300.584 mm (11.834 in)	43.637 mm (1.716 in)	13 Teeth	14 Teeth	-
6E3236	306.324 mm (12.060 in)	30.607 mm (1.205 in)	Use Key 6E3252	37 Teeth	30 Teeth
9J5085	306.864 mm (12.160 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	30 Teeth
1U3883	310.896 mm (12.240 in)	31.217 mm (1.229 in)	14 Teeth	37 Teeth	40 Teeth
6E3238	311.150 mm (12.250 in)	34.900 mm (1.374 in)	Use Key 6E3252	37 Teeth	40 Teeth
6E3242	312.496 mm (12.303 in)	31.699 mm (1.248 in)	14 Teeth	14 Teeth	30 Teeth
6E3240	312.496 mm (12.303 in)	31.750 mm (1.250 in)	Use Key 6E3253	14 Teeth	30 Teeth

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3G1855	319.532 mm (12.580 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	40 Teeth
8J5092	319.532 mm (12.580 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	40 Teeth
3K8250	319.788 mm (12.590 in)	31.823 mm (1.245 in)	14 Teeth	14 Teeth	12 Teeth
6E3245	323.088 mm (12.720 in)	31.699 mm (1.248 in)	14 Teeth	14 Teeth	40 Teeth
6E3244	323.088 mm (12.720 in)	31.750 mm (1.260 in)	Use Key 6E3253	14 Teeth	40 Teeth
8J5094	328.188 mm (12.920 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	30 Teeth
8J6887	329.438 mm (12.970 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	37 Teeth
8J5097	329.692 mm (12.980 in)	31.217 mm (1.229 in)	14 Teeth	37 Teeth	40 Teeth
4J3428	330.708 mm (13.020 in)	29.108 mm (1.146 in)	13 Teeth	14 Teeth	40 Teeth
8J5099	330.962 mm (13.030 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	37 Teeth
6E3217	335.788 mm (13.220 in)	31.572 mm (1.243 in)	14 Teeth	14 Teeth	37 Teeth
6E3247	335.788 mm (13.220 in)	31.750 mm (1.260 in)	Use Key 6E3253	14 Teeth	37 Teeth
6E3241	337.896 mm (13.303 in)	38.075 mm (1.499 in)	Use Key 1K2550	14 Teeth	30 Teeth
5J1219	338.582 mm (13.330 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	40 Teeth
8J5102	338.838 mm (13.340 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	40 Teeth
6E3246	348.488 mm (13.720 in)	37.821 mm (1.489 in)	Use Key 1K2550	14 Teeth	40 Teeth
8J5088	351.536 mm (13.840 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	37 Teeth
8J5095	351.536 mm (13.840 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	37 Teeth
3J9288	352.552 mm (13.880 in)	44.323 mm (1.745 in)	13 Teeth	18 Teeth	-
6E3249	361.188 mm (14.220 in)	32.842 mm (1.293 in)	Use Key 1K2550	14 Teeth	37 Teeth
3J8916	362.712 mm (14.280 in)	44.323 mm (1.745 in)	13 Teeth	13 Teeth	-
3J0637	377.825 mm (14.875 in)	60.325 mm (2.375 in)	16 Teeth	18 Teeth	-
4J8789	381.610 mm (15.024 in)	31.140 mm (1.226 in)	14 Teeth	14 Teeth	40 Teeth
9T3067	382.245 mm (15.049 in)	31.217 mm (1.229 in)	14 Teeth	40 Teeth	30 Teeth
4T9367	411.023 mm (16.182 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	40 Teeth & 11 Teeth
4T2111	414.147 mm (16.305 in)	31.217 mm (1.229 in)	14 Teeth	37 Teeth	40 Teeth & 23 Teeth
1U3518	475.742 mm (18.730 in)	31.217 mm (1.229 in)	14 Teeth	14 Teeth	37 Teeth & 23 Teeth

VQ VQNE PUMP CARTRIDGE REFERENCE GUIDE

New Cartridge Part No.	Rotation	GPM	Bushing	Reman Cartridge Part No.
20VQ PUMP SERIES				
3G2722	Left	5	No	OR1481
6E3229	Right	5	No	-
3G2749	Left	8	No	OR1483
1U2684	Right	8	No	OR1495
3G2719	Left	9	No	OR1459
6E3221	Right	9	No	-
3G2720	Left	11	No	OR1480
3G2751	Right	11	No	OR1484
3G7659	Left	12	No	OR1479
4T3196	Right	12	No	OR1493
3G7658	Left	14	No	OR1478
1U2685	Right	14	No	OR1496
25VQ PUMP SERIES				
3G2717	Left	12	Yes	OR1457
1U3519	Right	12	Yes	OR1503
3G7653	Left	14	Yes	OR1473
3G2200	Right	14	Yes	OR1453
3G7654	Left	17	Yes	OR1474
3G2195	Right	17	Yes	OR1451
3G2718	Left	19	Yes	OR1458
3G2196	Right	19	Yes	OR1452
3G7655	Left	21	Yes	OR1475
1U2688	Right	21	Yes	OR1499
6E4288	Left	12	No	-
6E3239	Right	12	No	-
1U3952	Left	14	No	OR1504
9J7891	Right	14	No	OR1488
3G7663	Left	17	No	OR1483
1U2686	Right	17	No	OR1497
1U2652	Left	19	No	OR1494
3G7652	Right	19	No	OR1472
3G2752	Left	21	No	OR1485
3G7662	Right	21	No	OR1482
30VQ PUMP SERIES				
3G2807	Left	24	Yes	OR1487
3G2806	Right	24	Yes	OR1486
6E4285	Left	28	Yes	-
6E3209	Right	28	Yes	-

VQ VQNE PUMP CARTRIDGE REFERENCE GUIDE

New Cartridge Part No.	Rotation	GPM	Bushing	Reman Cartridge Part No.
35VQ PUMP SERIES				
6E4266	Left	21	Yes	-
6E3210	Right	21	Yes	-
4T6869	Left	25	Yes	0R1462
3G1267	Right	25	Yes	0R1448
9T2200	Left	30	Yes	0R1450
3G1266	Right	30	Yes	0R1447
4T1893	Left	35	Yes	0R1491
3G7651	Right	35	Yes	0R1471
1U3953	Left	38	Yes	0R1505
1U2669	Right	38	Yes	0R1500
6E4269	Left	21	No	-
6E3260	Right	21	No	-
6E4258	Left	25	No	-
3G2834	Right	25	No	0R1468
6E4259	Left	30	No	-
3G2835	Right	30	No	0R1469
3G7665	Left	35	No	0R1485
3G2837	Right	35	No	0R1470
3G7666	Left	38	No	0R1486
3G7664	Right	38	No	0R1484
45VQ PUMP SERIES				
3G2236	Left	42	Yes	0R1455
3G2238	Right	42	Yes	0R1456
3G7661	Left	47	Yes	0R1481
1U2670	Right	47	Yes	0R1501
3G7660	Left	50	Yes	0R1480
3G7666	Right	50	Yes	0R1476
3G7667	Left	57	Yes	0R1487
3G7657	Right	57	Yes	0R1477
3G2234	Left	60	Yes	0R1454
1U2671	Right	60	Yes	0R1502
21VQ¹ PUMP SERIES				
6E4267	Left	5	No	-
6E3235	Right	5	No	-
6E4261	Left	8	No	-
6E3231	Right	8	No	-
6E4260	Left	9	No	-
6E3230	Right	9	No	-
6E4262	Left	11	No	-
6E3232	Right	11	No	-
6E4263	Left	12	No	-
6E3233	Right	12	No	-
6E4264	Left	14	No	-
6E3234	Right	14	No	-

¹ 21VQ Cartridges are replacement cartridges for 2521 and 3521 Vane Pump Groups.