

V20-2651

X-REF 11 36 7 524 489

CONTROL VALVE, CAMSHAFT ADJUSTMENT

11314

TEST-CONDITIONS

Batch quantity 3
 Oil temp $40 \pm 5 \text{ }^{\circ}\text{C}$
 Oil pressure $300 \pm 50 \text{ Kpa}$
 Frequency 250 Hz
 Test voltage 12 V

SPECIFICATION

Lowest flow at 30 - 40 %



FREQUENCY VS. OIL FLOW VOLUME

Duty Cycle % (x10)	11 36 7 524 489 OE part (ml/min)	V20-2651 Sample 1 (ml/min)	V20-2651 Sample 2 (ml/min)	V20-2651 Sample 3 (ml/min)
101	4579	4769	4665	4728
106	4567	4757	4682	4749
111	4550	4732	4638	4769
116	4575	4737	4645	4747
121	4561	4711	4681	4749
126	4540	4720	4661	4708
131	4553	4723	4671	4720
136	4545	4721	4663	4715
141	4528	4730	4637	4723
146	4514	4752	4654	4727
151	4512	4743	4649	4752
156	4521	4728	4661	4728
161	4517	4697	4649	4726
166	4486	4698	4621	4692
171	4461	4705	4636	4681
176	4437	4684	4624	4687
181	4400	4701	4625	4679
186	4379	4692	4586	4685
191	4347	4672	4595	4695

Duty Cycle % (x10)	11 36 7 524 489 OE part (ml/min)	V20-2651 Sample 1 (ml/min)	V20-2651 Sample 2 (ml/min)	V20-2651 Sample 3 (ml/min)
196	4283	4669	4590	4627
201	4203	4636	4611	4614
206	4098	4653	4547	4598
211	3970	4678	4545	4582
216	3820	4641	4522	4567
221	3660	4628	4521	4523
226	3467	4553	4490	4479
231	3268	4500	4471	4424
236	3041	4444	4387	4316
241	2815	4323	4379	4222
246	2519	4287	4263	4125
251	2225	4178	4280	3960
256	1947	4018	4075	3706
261	1649	3800	4052	3458
266	1349	3503	3722	3203
271	1076	3187	3714	3031
276	793	2981	3133	2833
281	571	2960	2857	2565
286	379	2428	2667	2261

Duty Cycle % (x10)	11 36 7 524 489 OE part (ml/min)	V20-2651 Sample 1 (ml/min)	V20-2651 Sample 2 (ml/min)	V20-2651 Sample 3 (ml/min)
291	256	2151	2628	2070
296	185	2024	2547	1813
301	138	1854	1962	1587
306	100	1497	1792	1370
311	78	1434	1761	1181
316	63	1418	1344	969
321	49	890	1175	771
326	47	752	1142	590
331	37	580	766	394
336	34	442	617	271
341	31	289	431	155
346	30	167	302	115
351	27	109	195	99
356	27	91	145	82
361	27	67	109	63
366	28	62	89	59
371	31	63	71	55
376	32	53	66	50
381	34	45	64	52

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386	44	45	51	49
391	59	39	57	51
396	89	38	56	56
401	157	41	53	66
406	285	39	55	79
411	466	45	57	106
416	481	57	69	139
421	479	63	214	199
426	479	88	361	305
431	541	107	572	451
436	2563	158	825	666
441	2960	247	1024	975
446	3290	360	1303	1239
451	3592	535	1624	1468
456	3860	771	1909	1728
461	4015	1046	2032	1976
466	4176	1340	2039	2333
471	4270	1722	2023	2617
476	4350	2033	2769	2816
481	4391	2304	3571	3382
486	4439	2588	3786	3707
491	4449	2980	3791	3740
496	4470	3341	3787	3732
501	4497	3664	3809	3848
506	4498	4011	3799	4293
511	4521	4215	3835	4319
516	4547	4254	4393	4309
521	4544	4314	4429	4462
526	4572	4418	4425	4509
531	4563	4471	4424	4552
536	4602	4496	4446	4563
541	4597	4514	4455	4580
546	4600	4526	4457	4572

Duty Cycle % (x10)	11 36 7 524 489 OE part (ml/min)	V20-2651 Sample 1 (ml/min)	V20-2651 Sample 2 (ml/min)	V20-2651 Sample 3 (ml/min)
551	4588	4561	4449	4614
556	4602	4586	4605	4627
561	4586	4638	4616	4631
566	4593	4663	4603	4653
571	4603	4656	4627	4664
576	4618	4671	4654	4706
581	4608	4653	4631	4681
586	4582	4688	4643	4702
591	4599	4718	4613	4700
596	4648	4720	4649	4695
601	4713	4718	4697	4712
606	4682	4709	4679	4748
611	4565	4718	4690	4744
616	4565	4724	4655	4765
621	4555	4714	4670	4738
626	4563	4751	4716	4750
631	4582	4763	4714	4750
636	4580	4765	4717	4736
641	4588	4793	4686	4753
646	4560	4781	4690	4769
651	4567	4759	4703	4737
656	4581	4786	4688	4748
661	4560	4761	4716	4777
666	4584	4758	4736	4777
671	4581	4779	4735	4790
676	4587	4771	4721	4779
681	4570	4769	4710	4759
686	4589	4786	4725	4771
691	4572	4774	4728	4737
696	4588	4773	4699	4736
701	4572	4800	4726	4751
702	4571	4861	4758	4835
697	4576	4875	4747	4778

Duty Cycle % (x10)	11 36 7 524 489 OE part (ml/min)	V20-2651 Sample 1 (ml/min)	V20-2651 Sample 2 (ml/min)	V20-2651 Sample 3 (ml/min)
692	4592	4860	4751	4772
687	4571	4846	4775	4799
682	4605	4865	4762	4806
677	4580	4869	4776	4819
672	4614	4844	4778	4823
667	4627	4857	4782	4795
662	4559	4868	4791	4799
657	4582	4847	4796	4780
652	4576	4824	4767	4793
647	4595	4814	4777	4797
642	4580	4809	4753	4781
637	4582	4801	4759	4785
632	4565	4792	4765	4803
627	4567	4807	4749	4776
622	4578	4801	4743	4787
617	4586	4770	4760	4786
612	4588	4778	4758	4770
607	4580	4779	4755	4768
602	4601	4759	4784	4797
597	4582	4774	4770	4790
592	4588	4779	4768	4777
587	4590	4753	4729	4791
582	4585	4751	4737	4802
577	4567	4768	4748	4791
572	4573	4767	4699	4778
567	4587	4771	4701	4760
562	4579	4734	4729	4764
557	4573	4748	4726	4723
552	4579	4716	4746	4714
547	4591	4757	4708	4728
542	4570	4819	4686	4714
537	4569	4756	4693	4728
532	4595	4688	4666	4706

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527	4585	4677	4691	4707
522	4595	4608	4688	4697
517	4566	4581	4630	4665
512	4580	4580	4608	4666
507	4573	4568	4580	4569
502	4575	4559	4614	4582
497	4594	4583	4604	4570
492	4521	4556	4527	4569
487	4514	3860	4400	4401
482	4521	3753	4394	4353
477	4513	3747	4400	4369
472	4520	3751	4416	4356
467	4530	3750	4351	4366
462	4519	3752	3634	3825
457	4440	3747	3396	3722
452	4222	1862	3163	3717
447	4013	1827	3137	3728
442	3760	1816	3158	3194
437	3590	1822	3154	2154
432	3580	1825	3135	2141
427	3577	1818	3160	2150
422	3586	1808	1591	1466
417	3594	324	903	1207
412	3571	302	667	1198
407	1262	304	487	1201
402	871	299	334	397
397	709	295	308	376
392	697	299	295	371
387	690	184	295	234
382	675	72	296	113
377	404	66	187	110
372	81	67	73	107
367	64	67	69	88

Duty Cycle % (x10)	11 36 7 524 489 OE part (ml/min)	V20-2651 Sample 1 (ml/min)	V20-2651 Sample 2 (ml/min)	V20-2651 Sample 3 (ml/min)
362	58	64	70	61
357	56	57	70	59
352	57	52	72	63
347	53	52	77	56
342	37	50	76	55
337	31	52	74	55
332	31	63	77	64
327	30	81	214	66
322	31	93	319	68
317	34	117	323	96
312	37	189	322	216
307	39	273	326	216
302	51	359	707	213
297	59	500	1138	742
292	81	714	1167	738
287	108	839	1168	744
282	150	1101	1183	1240
277	221	1197	1985	1483
272	342	1363	1998	1450
267	473	1504	1980	1940
262	691	1833	2307	2152
257	948	2151	2790	2502
252	1246	2466	2837	2682
247	1518	2596	3080	2818
242	1799	2612	3489	3220
237	2095	2957	3494	3347
232	2370	3125	3892	3698
227	2670	3274	4125	3691
222	2942	3527	4128	4070
217	3163	3835	4282	4132
212	3403	4097	4357	4293
207	3627	4180	4387	4363
202	3761	4320	4491	4440

Duty Cycle % (x10)	11 36 7 524 489 OE part (ml/min)	V20-2651 Sample 1 (ml/min)	V20-2651 Sample 2 (ml/min)	V20-2651 Sample 3 (ml/min)
197	3911	4464	4514	4492
192	4044	4535	4537	4548
187	4162	4568	4565	4612
182	4230	4596	4661	4629
177	4295	4629	4636	4630
172	4351	4678	4663	4640
167	4387	4731	4655	4663
162	4412	4728	4673	4718
157	4440	4728	4723	4714
152	4455	4728	4708	4752
147	4501	4728	4747	4742
142	4621	4728	4771	4753
137	4642	4728	4746	4754
132	4539	4728	4728	4747
127	4575	4728	4726	4762
122	4572	4728	4755	4775
117	4602	4728	4752	4755
112	4598	4728	4744	4773
107	4637	4728	4778	4798
102	4601	4728	4816	4803
97	4606	4728	4779	4792

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OE SAMPLE 11 36 7 524 489



VAICO V20-2651



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