

V61 Serisi / V61 Series



Karakteristik Özellikler / Characteristic Features

V61 motor is a disc valve type gerotor motor.
 Advanced design in disc distribution flow, which can provide improved performance at low speed.
 Advanced design of shaft seal, which can bear higher pressure.
 Advanced distribution mechanism design, which has the automatic compensation function.
 Double-rolling bearing design, which permit higher radial loads.
 A variety of connection types of flange, output shaft and oil port.

Ana Özellikler / Main Specification

(ml/r) Displacement		195	245	310	395	490	625	800	985
(LPM) Flow	Cont.	150	150	150	150	150	150	150	150
	Int..	170	210	225	225	225	225	225	225
(RPM) Speed	Cont.	776	615	484	385	308	242	186	155
	Int..	865	836	699	572	453	354	275	230
(MPa) Pressure	Cont.	20.5	20.5	20.5	20.5	17	14	12	12
	Int..	31	31	31	31	27.5	17	14	14
(N*m) Torque	Cont.	572	572	928	1156	1213	1331	1378	1565
	Int..	852	852	1356	1633	1878	1368	1645	1877

- Intermittent means the entrance of the maximum pressure; continuous working pressure means the differential pressure.
- Motor should not work under the highest pressure and the maximum speed.
- The running time should not exceed 10% under intermittent working conditions
- Recommending N68 anti-wear hydraulic oil, viscosity 37-73cSt, cleanliness ISO 18/13.
- The Maximum working temperature is 80°.
- One hour running time under 40% of maximum working pressure is recommended before full capacity working.
- The maximum allowable back pressure is 10MPa, but the recommended back pressure should not exceed 5MPa. a leaking pipes is needed when exceeding.

V61Performans Verisi / V61 Performance Data
V61-195 195ml/r

		ΔP (MPa)								
		3.5	7	10.5	14	17	20.5	24	27.5	31
Flow (L/min)	15	80	175	271	366	454	521	589	654	
	30	86	179	274	371	464	545	626	704	779
	45	85	180	279	374	476	565	654	751	825
	61	79	179	280	376	475	574	664	760	845
	76	80	179	281	380	480	574	671	769	
	91	80	174	274	375	474	575	669	770	
	106	74	176	271	375	474	570	669	770	
	121	70	169	269	369	470	570	670	763	
	136	70	163	264	364	465	565	664		
	151	70	164	261	364	466	559	660		
	179	65	161	259	360	461				
		866	854	844	825	808				

V61-245 245ml/r

		ΔP (MPa)								
		3.5	7	10.5	14	17	20.5	24	27.5	31
Flow (L/min)	15	106	227	346	461	577	643	751	853	960
	30	110	237	274	475	596	701	800	905	1018
	45	110	235	279	482	607	721	840	955	1075
	61	112	236	280	487	611	730	844	960	1181
	76	105	232	281	485	614	735	853	980	
	91	104	231	274	482	612	735	861	979	
	106	102	227	271	483	611	733	855	980	
	121	91	216	269	470	600	725	850		
	136	80	210	264	460	580	710	840		
	151	80	202	261	456	580	700	800		
	179	66	202	259	446	575	685			
		688	682	684	685	640	606			
Flow (L/min)	189		195	316	441	555				
	208		191	311	431					
			834	834	804					

V61-310 310ml/r

		ΔP (MPa)								
		3.5	7	10.5	14	17	20.5	24	27.5	31
Flow (L/min)	15	136	292	431	573	684	801	934	1020	1070
	30	147	300	451	596	732	870	985	1100	1235
	45	140	306	461	612	760	909	1045	1180	1330
	61	140	302	462	615	771	920	1060	1200	
	76	135	296	457	617	772	925	1075	1220	
	91	130	296	456	614	774	929	1078	1226	
	106	130	290	450	609	768	928	1073		
	121	125	285	444	600	763	918	1060		
	136	120	276	434	590	748	912	1050		
	151	115	271	424	578	743	902			
	179	110	245	384	523	682	836			
	227		220	364	513	647				
			698	691	684	661				

V61-395 395ml/r

		ΔP (MPa)								
		3.5	7	10.5	14	17	20.5	24	27.5	31
Flow (L/min)	15	188	378	563	573	923	1083	1276	1371	1635
	30	188	383	578	596	953	1137	1316	1456	
	45	188	388	583	612	968	1152	1341	1540	
	61	183	383	583	615	968	1156	1345		
	76	183	383	583	617	973	1161			
	91	173	373	573	614	968	1156			
	106	168	368	568	609	963	1151			
	121	163	353	558	600	947	1146			
	136	158	343	548	590	933				
	151	153	328	538	578	917				
	179	133	303	518	523	913				
	227		283	502	721					
			569	561	551					

V61 Performans Verisi / V61 Performance Data

V61-490 490ml/r

		ΔP (MPa)							
		3.5	7	10.5	14	17	20.5	24	27.5
Flow (L/min)	15	235 30	486 29	725 28	962 27	1195 25	1408 21	1643 17	
	30	235 60	486 59	734 57	973 54	1213 51	1442 45	1680 38	
	45	235 91	485 89	733 87	974 84	1218 79	1450 71		
	61	234 122	480 121	728 118	973 114	1217 109	1456 100		
	76	225 152	470 150	723 147	972 144	1217 139			
	91	220 184	469 181	713 180	968 176	1210 171			
	106	209 214	459 211	708 208	957 204	1205 198			
	121	194 244	448 241	700 237	947 232	1200 226			
	136	175 275	433 272	683 265	937 260	1170 255			
	151	160 306	423 303	673 295	917 290				
	179	130 382	364 379	588 365					
	227		323 454	546 442					

V61-625 625ml/r

		ΔP (MPa)							
		3.5	5	7	8.5	10.5	12	14	17
Flow (L/min)	15	275 24	425 24	570 23	709 22	849 21	954 18	1063 16	1190 15
	30	295 45	450 44	604 44	754 43	923 42	1093 39	1267 37	1355 36
	45	295 72	448 71	609 71	764 70	918 68	123 66	1327 64	1375 63
	61	285 94	445 93	604 92	759 91	914 89	1118 87	1323 85	1370 83
	76	280 119	439 118	594 117	754 116	914 115	1118 112	1324 110	1372 107
	91	264 143	429 142	585 140	744 139	904 138	1108 135	1317 132	1365 130
	106	255 168	414 166	574 165	734 164	893 162	1103 159	1312 156	
	121	240 192	400 190	559 188	719 187	878 185	1088 182		
	136	220 216	379 214	539 213	698 212	853 210	1047 207		
	151	200 240	360 239	519 238	379 237	833 236			
	179		310 298	469 296	629 294	788 290			
	227		254 355	430 353	588 350				

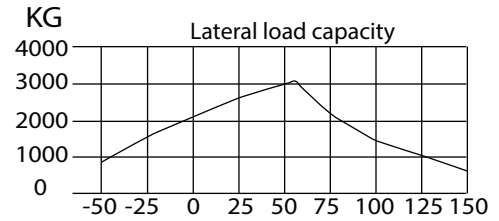
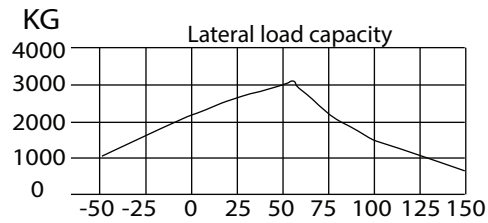
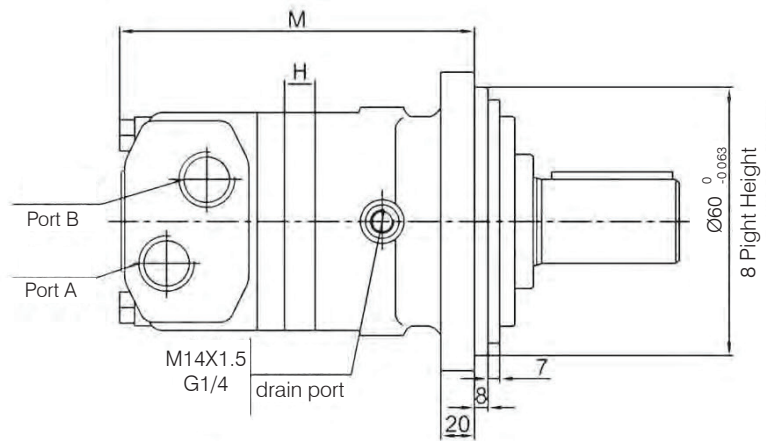
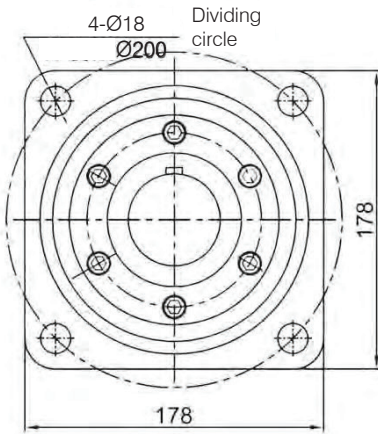
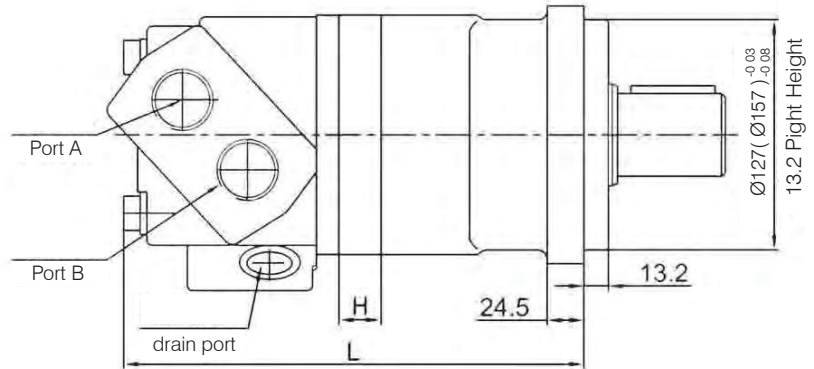
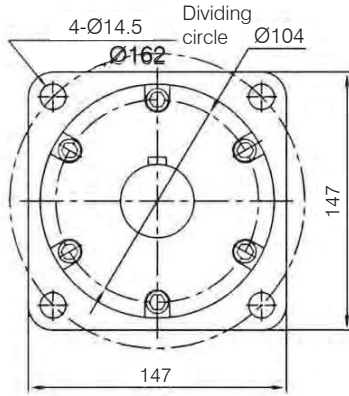
V61-800 800ml/r

		ΔP (MPa)						
		3.5	5	7	8.5	10.5	12	14
Flow (L/min)	15	434 18	607 17	838 17	1018 16	1238 15	1377 14	1646 13
	30	419 36	395 35	828 35	1003 34	1238 33	1412 31	1606 29
	45	379 55	564 55	794 54	870 54	1187 53	1358 51	
	61	339 75	519 74	758 72	837 71	1167 70		
	76	324 93	498 92	728 90	897 89	1135 87		
	91	314 111	468 110	698 109	857 108	1076 105		
	106	309 129	448 128	648 127	797 125			
	121	279 148	419 146	608 145	746 143			
	136	269 166	398 165	547 165	695 164			
	151	249 184	348 183	497 182	631 180			
	179		299 230	438 228				
	227			378 276				

V61-985 985ml/r

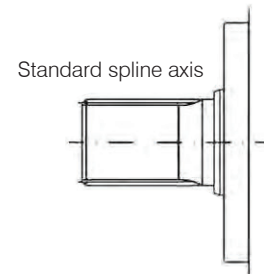
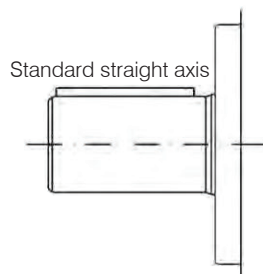
		ΔP (MPa)						
		3.5	5	7	8.5	10.5	12	14
Flow (L/min)	15	484 15	774 15	964 14	1203 14	1443 13	1567 13	1786 12
	30	494 30	749 30	994 29	1233 28	1477 27	1637 26	1871 25
	45	494 45	749 45	1000 44	1248 43	1492 42	1696 41	
	61	489 61	739 61	995 60	1243 59	1497 58		
	76	475 77	730 76	983 76	1233 75	1481 74		
	91	460 92	704 92	959 91	1217 90	1466 89		
	106	444 107	700 107	949 106	1197 105	1446 103		
	121	425 123	674 122	923 121	1156 120			
	136	394 138	645 138	893 137	1120 135			
	151	365 153	609 152	864 151	1080 150			
	179	325 191	585 190	829 189				
	227		525 230	809 229				

V61 Boyutlar ve Montaj Verileri / V61 Dimensions and Mounting Data

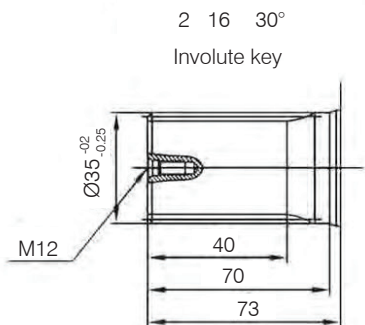
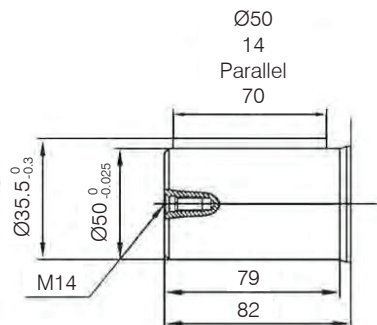
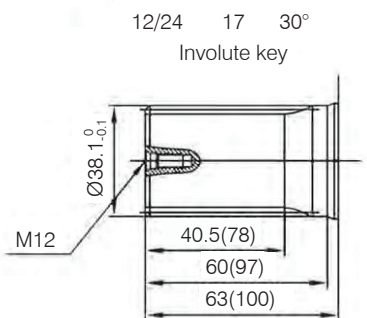
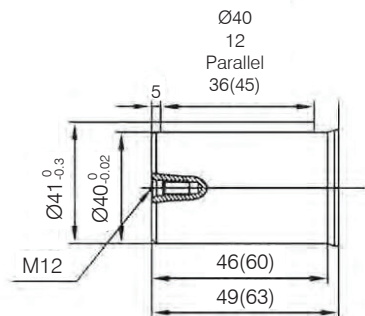
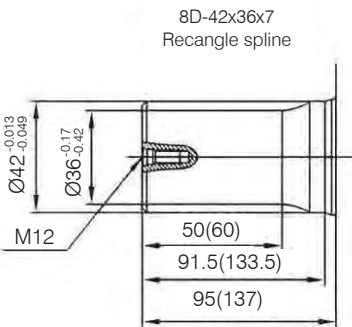
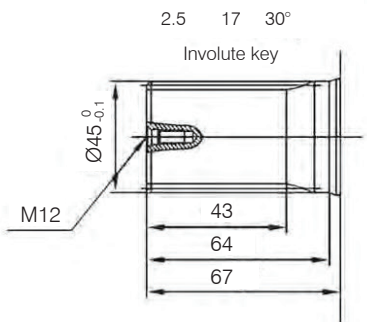
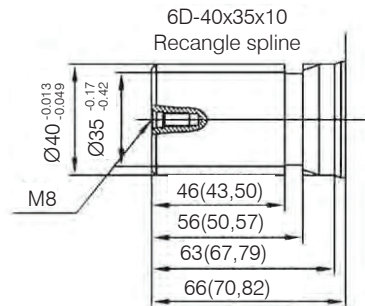
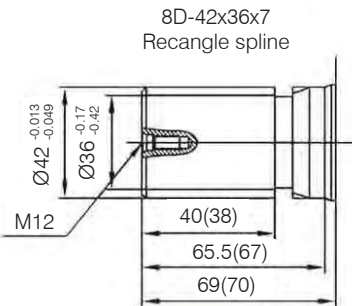
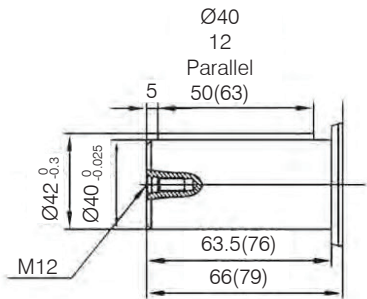
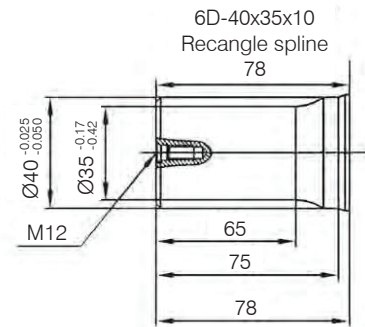
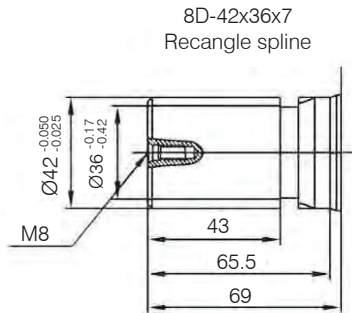
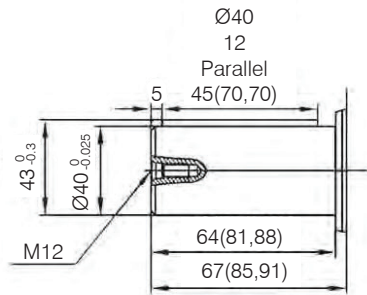


Standard Direction of The Motor
 Rotation:
 CW-When A Port pressurized
 Viewed From the Shaft End.

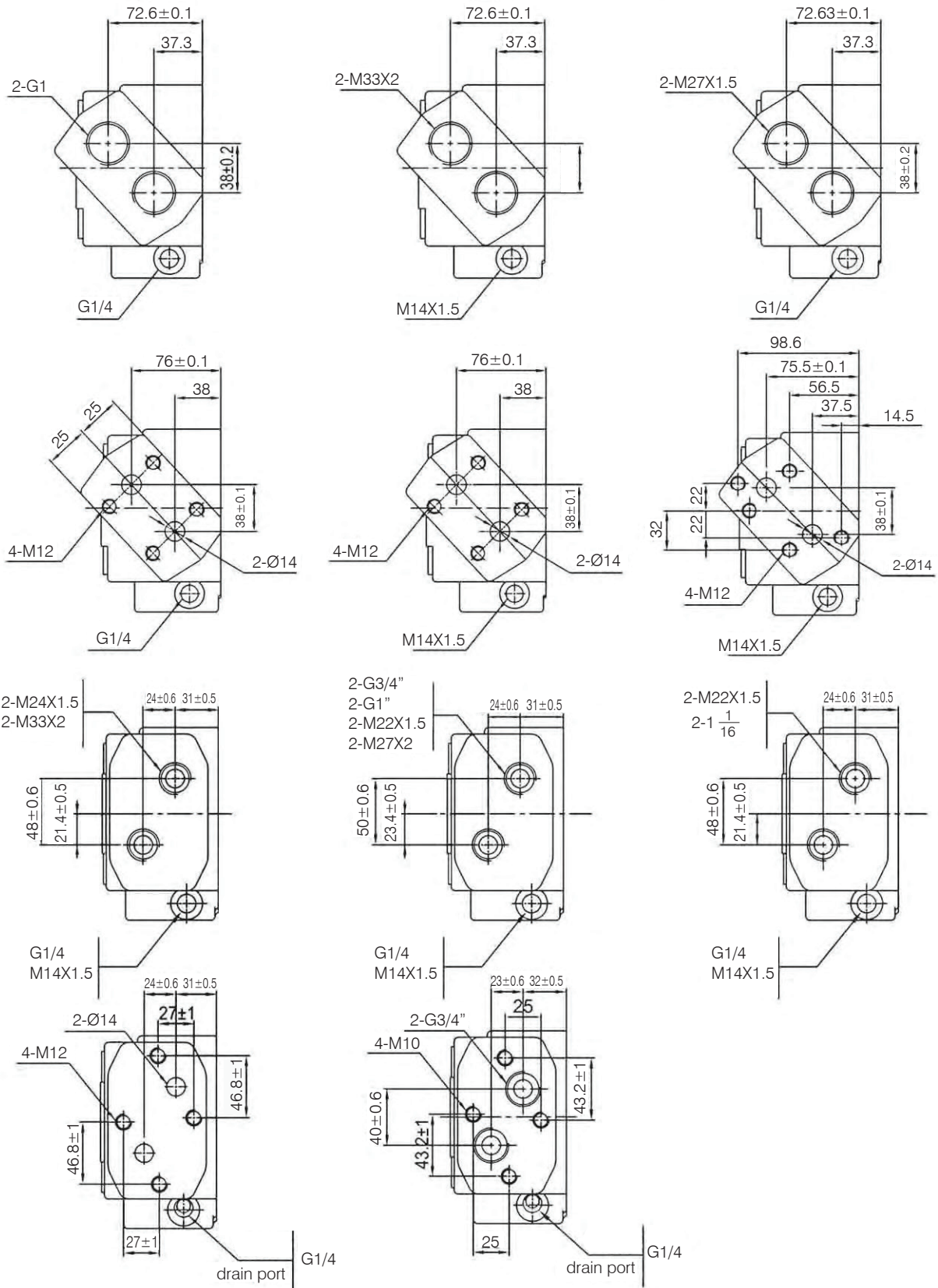
Displacement (cc/t)	H (mm)	L (mm)	M (mm)
195	21.7	245.7	230.7
245	27.3	251.3	236.3
310	34.6	258.6	243.6
395	43.4	267.4	252.4
490	54.4	279.4	264.4
625	69.2	293.2	278.2
800	89	313	298
985	108.8	332.8	317.8



V61 Boyutlar ve Montaj Verileri / V61 Dimensions and Mounting Data



V61 Boyutlar ve Montaj Verileri / V61 Dimensions and Mounting Data



V61 Sipariş Bilgileri / V61 Ordering Information

Feature			Displacement/NO.							
Flange	Shaft	Oil port/ drain port	195	245	310	395	490	625	800	985
Square flange; Pilot:Ø127	Ø40 P12 x 63	M33 x 2; M14 x 1.5								
Square flange; Pilot:Ø125	Ø40 P12 x 45	G3/4; G1/4; Plate-connection: 4-M10								
Square flange; Pilot:Ø160	Ø50 x 79 P14 x 70	M33 x 2; M14 x 1.5								
Square flange; Pilot:Ø127	Ø40 P12 x 50	M33 x 2; M14 x 1.5								
	Ø40 P12 x 45	M33 x 2; G1/4								
Square flange; Pilot:Ø125	Ø40 P12 x 63	M24 x 1.5; M14 x 1.5								
Square flange; Pilot:Ø160	Ø50 x 79 P14 x 70	G1; G1/4; Plate-connection: 4-M12								
Square flange; Pilot:Ø127	Ø40 P12 x 63	G1; G1/4	122 898-61	144 431-61	110 470-61	110 471-61	110 472-61	144 415-61	122 709-61	—
	Ø38.1 P9.5 x 45	1-5/16; 7/16-20UNF								
	8D-2 x 36 x 7	M33 x 2; M14 x 1.5								
	8D-40 x 35 x 10	M33 x 2; M14 x 1.5								
Square flange; Pilot:Ø160	6D-40 x 35 x 10	G1; G1/4; Plate-connection: 4-M12								
Square flange; Pilot:Ø127	8D-42 x 36 x 7	Ø14; Plate-connection: 4-M12								
Square flange; Pilot:Ø160	6D-40 x 35 x 10	M33 x 2; G1/4								
Square flange; Pilot:Ø127	6D-40-35 x 10	M33 x 2; M14 x 1.5								
Square flange; Pilot:Ø160	6D-40-35 x 10	M33 x 2; M14 x 1.5								
	Spline:17 M=2.5	G1; G1/4								
Square flange; Pilot:Ø127	Spline:16 M=2	M33 x 2; M14 x 1.5								

Not: Diğer modeller için bilgi alınız.

Tip Numarası V61 Performans Verisi / Type Number-V61 Series Motors

1	2	3	4	5	6	7	8
V61							

1) V61

Position V61 series motors

2) CC/R

Position displacement

- 1, 195
- 2, 245
- 3, 310
- 4, 396
- 5, 490
- 6, 625
- 7, 800
- 8, 985

3) Position Flange and pilot

- A, 4 bolt Square-flange, pilot Ø125x13cm
- B, 4 bolt Square-flange, pilot Ø127x13.2mm
- C, 4 bolt Square-flange, pilot Ø160x8mm

4) Position shaft

- 1, Ø32 straight shaft, flat key 10x8x36
- 2, Ø32 straight shaft , flat key 10x8x45
- 3, Ø40 straight shaft , flat key 12x8x45
- 4, Ø40 straight shaft , flat key 12x8x70
- 5, Ø40 straight shaft , flat key 12x8x50
- 6, Ø40 straight shaft , flat key 12x8x63
- 7, Ø50 straight shaft , flat key 14x9x70
- 8, Spline shaft 8D-42x36x7
- 9, Splined shaft 6D-40x35x10
- 10, Splined shaft 12/24DP 17 tooth
- 11, Splined shaft 2.5 17 tooth
- 12, Splined shaft 2 16 tooth

5) Position V61 series motors

- A, G1/2
- B, M22X1.5
- C, Ø14
- D, ZG1/2
- E, M18X1.5
- F, M24X1.5
- G, 1-5/16-12UNF
- H, Ø13
- I, M27x2
- J, G3/4
- K, M33x2
- L, 11/16

6) Position drain port

- 2, M14x1.5
- 3, G1/4
- 4, 7/16-20UNF
- 5, R1/4

7) Position paint color

- A, silver paint
- B, blue
- C, black
- D, no paint

7) Position rotation direction

- A, standard
- B, opposite