

Table1 WRV-E reducer parameter specification

Output speedr/min			5		10		15(Rated)		20		25		30		40		50		60		Moment stiffness central value	Allowable moment	Momentary max. allowable moment	Max. allowable output speed	Allowable starting/stopping torque	Momentary max. allowable torque	Backlash max.	Torsional rigidity central value	Inertia moment I=GD ² /4 Input shaft conversion value	Weight
Model	Ratio		Output torque	Input Power	Output torque	Input Power	Output torque	Input Power	Output torque	Input Power	Output torque	Input Power	Output torque	Input Power	Output torque	Input Power	Output torque	Input Power	Output torque	Input Power										
	Shaft rotate	Housing rotate																			Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW
WRV-20 E	57	56	231	0.16	188	0.26	167	0.35	153	0.43	143	0.50	135	0.57	124	0.70	115	0.81	110	0.92	372	882	1764	75	412	833	1'	49	1.08×10 ⁻⁵	4.7
	81	80																											0.65×10 ⁻⁵	
	105	104																											0.45×10 ⁻⁵	
	121	120																											0.37×10 ⁻⁵	
	141	140																											0.29×10 ⁻⁵	
	161	160																											0.24×10 ⁻⁵	
WRV-40 E	57	56	572	0.40	465	0.65	412	0.86	377	1.05	353	1.23	334	1.71	307	1.71	287	2.00	271	2.27	931	1666	3332	70	1029	2058	1'	108	3.75×10 ⁻⁵	9.3
	81	80																											2.40×10 ⁻⁵	
	105	104																											1.72×10 ⁻⁵	
	121	120																											1.43×10 ⁻⁵	
	153	152																											1.03×10 ⁻⁵	
WRV-110 E	81	80	1499	1.05	1215	1.70	1078	2.26	990	2.76	925	3.23	875	3.67	804	4.49	-	-	-	-	1470	2940	5880	50	2695	5390	1'	294	1.08×10 ⁻⁴	17.4
	111	110																											0.73×10 ⁻⁴	
	161	160																											0.45×10 ⁻⁴	
	175.28	174.28																											0.40×10 ⁻⁴	
WRV-160 E	81	80	2176	1.52	1774	2.48	1568	3.28	1441	4.02	1343	4.69	1274	5.34	-	-	-	-	-	-	2940	3920	7840	45	3920	7840	1'	392	1.96×10 ⁻⁴	26.4
	101	100																											1.51×10 ⁻⁴	
	129	128																											1.11×10 ⁻⁴	
	145	144																											0.90×10 ⁻⁴	
	171	170																											0.76×10 ⁻⁴	

Table2 WRV-C reducer parameter specification

Output speedr/min			5		10		15(Rated)		20		25		30		40		50		60		Moment stiffness central value	Allowable moment	Momentary max. allowable moment	Max. allowable output speed	Allowable starting/stopping torque	Momentary max. allowable torque	Backlash max.	Torsional rigidity central value	Inertia moment I=GD ² /4 Input shaft conversion value	Weight
Model	Ratio		Output torque	Input Power	Output torque	Input Power	Output torque	Input Power	Output torque	Input Power	Output torque	Input Power	Output torque	Input Power	Output torque	Input Power	Output torque	Input Power	Output torque	Input Power										
	Shaft rotate	Housing rotate																			Nm	kW	Nm	kW	Nm	kW	Nm	kW	Nm	kW
WRV-10 C	27		136	0.09	111	0.16	98	0.21	90	0.25	84	0.29	80	0.34	73	0.41	68	0.47	65	0.54	421	686	1372	80	245	490	1'	47	0.678×10 ⁻³	4.6
WRV-50 C	32.54		681	0.48	554	0.77	490	1.03	450	1.26	420	1.47	398	1.67	366	2.04	341	2.38	-	-	1960	1764	3528	50	1225	2450	1'	255	0.363×10 ⁻²	14.6
WRV-200 C	34.86		2724	1.90	2215	3.09	1961	4.11	1803	5.04	1686	5.88	1597	6.69	-	-	-	-	-	-	9800	8820	17640	30	4900	9800	1'	980	1.94×10 ⁻²	55.6