

B-RW Hydraulic orbit motor



Technical data for B-RW									
Type		B-RW 80	B-RW 100	B-RW 125	B-RW 160	B-RW 200	B-RW 250	B-RW 315	B-RW 400
Geometric displacement (cm ³ /rev.)		81.5	102	127.2	157.2	194.5	253.3	317.5	381.4
Max. speed (rpm)	cont.	750	600	475	378	310	240	190	155
	int.	940	750	600	475	385	300	240	190
Max. torque (Nm)	cont.	195	240	300	380	450	540	550	580
	int.	220	280	340	430	500	610	690	690
	peak	270	320	370	460	560	710	840	830
Max. output (KW)	cont.	12.5	13	12.5	12.5	11	10	9	7.5
	int.	15	15	14.5	14	13	12	10	90
Max. pressure drop (Bar)	cont.	175	175	175	175	175	175	135	115
	int.	200	200	200	200	200	200	175	150
	peak	225	225	225	225	225	225	210	175
Max flow (L/min)	cont.	60	60	60	60	60	60	60	60
	int.	75	75	75	75	75	75	75	75
Weight (kg)		6.9	7	7.3	7.6	8	8.5	9.0	9.5

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute

B-RW series motor adapt the advanced Geroler gear set design with shaft distribution flow, which can automatically compensate in operating with high pressure, provide reliable and smooth operation, high efficiency and long life.

Characteristic features:

- Advanced manufacturing devices for the Gerolor gear set, which use low pressure of start-up, provide smooth, reliable operation and high efficiency.
- Shaft seal can bear high pressure of back and the motor can be used in parallel or in series.
- Special design in the driver-linker and prolong operating life
- Compact volume and easy installation.



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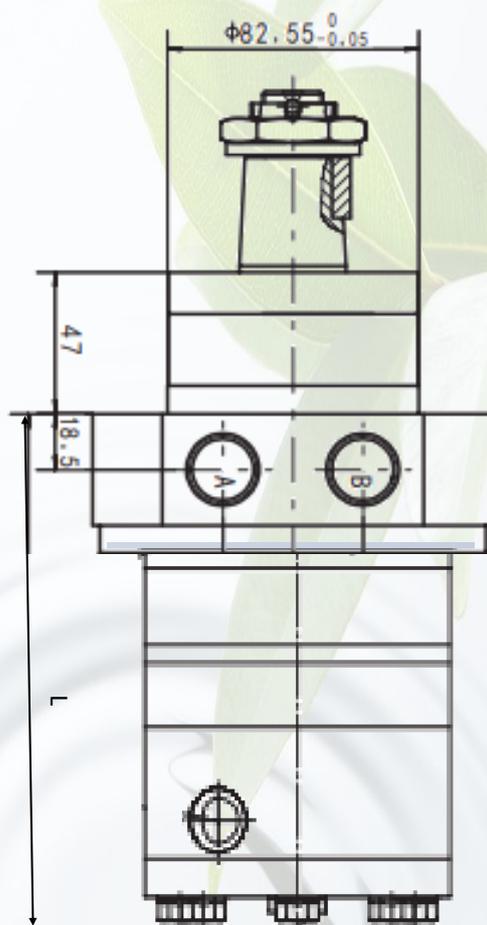
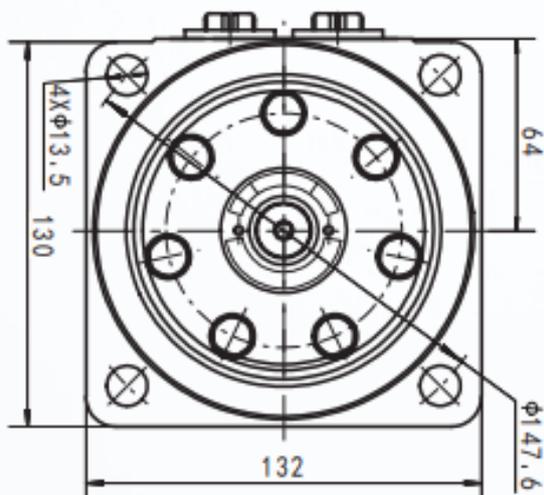
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Overview drawing



Model	L
B-RW80	194
B-RW100	198
B-RW125	203
B-RW160	208.5
B-RW200	216
B-RW250	228
B-RW315	240

Mounting	Code	G(depth)	M(depth)	S(depth)	P(depth)
	P(A,B)		G1/2(15)	M22x1.5(15)	7/8-14O-ring(17)
	C		M14x1.5(12)	7/16-20UNF(12)	7/16-20UNF(12)



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Performance data

RW 80 [81.5cm³/rev.]

Pressure (MPa)

	5	7	9	10	12	14	Max.cont.	17.5	Max.int.	20
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Flow (L/min)	5	50	64	88	108	133				
	10	54	77	99	108	129	150	173		
20	57	78.0	102	111	134	155	177	196	225	
30	54	75	100	108	131	152	176	195	223	
40	48	73	96	105	127	148	172	190	220	
50	42	70	93	102	124	147	170	188	218	
60	37	66	89	98	121	144	166	184	213	
70	32	60	83	95	116	140	160	177	208	
75	21	50	78	90	111	135	154	171	200	

RW 100 [102cm³/rev.]

Pressure (MPa)

	5	7	9	10	12	14	Max.cont.	16	17.5	Max.int.	20
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Flow (L/min)	5	66	92	120	135	156					
	10	68	96	125	138	159	188	212			
20	65	94.0	123	137	155	186	210	238	274		
30	63	92	120	133	153	185	209	235	270		
40	57	88	117	130	152	185	208	233	267		
50	48	79	110	123	150	183	204	228	260		
60	38	70	105	120	144	178	200	220	252		
70	32	65	100	118	141	176	197	215	246		
75	23	59	93	111	136	170	192	210	240		

RW 125 [127.2cm³/rev.]

Pressure (MPa)

	5	7	9	10	12	14	Max.cont.	16	17.5	Max.int.	20
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Flow (L/min)	5	76	110	145	167	189					
	10	84	118	155	176	202	228	253			
20	82	117	153	174	200	230	259	294	332		
30	79	116	151	171	198	228	257	292	329		
40	72	114	148	168	196	226	256	290	327		
50	62	105	143	165	195	223	254	287	323		
60	52	98	136	160	191	220	250	282	319		
70	41	90	130	156	187	215	242	278	313		
75	32	79	126	148	180	208	234	262	300		

RW 160 [157.2cm³/rev.]

Pressure (MPa)

	5	7	9	10	12	14	Max.cont.	16	17.5	Max.int.	20
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Flow (L/min)	5	104	146	190	210	245					
	10	107	150	195	216	250	290	335			
20	102	151	198	220	257	298	342	370	420		
30	97	146	190	217	256	295	340	368	416		
40	89	140	185	210	252	290	335	363	412		
50	72	128	179	202	244	284	327	358	409		
60	60	116	170	198	240	279	321	352	400		
70	49	107	164	193	233	271	309	344	390		
75	36	98	152	185	226	265	300	334	379		



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Performance data

RW 200 [194.5cm³/rev.]

Pressure (MPa)		Max.cont.						Max.int.		
		5	7	9	10	12	14	16	17.5	20

Flow (L/min)	Pressure (MPa)									
	5	7	9	10	12	14	16	17.5	20	
5	132	181	238	262	310					
10	135	186	240	264	315	356	403			
	49	47	45	43	38	33	24			
20	131	183	238	260	314	358	404	438	498	
30	126	178	233	254	311	355	402	431	486	
	149	147	144	141	135	126	113	105	91	
40	112	169	228	250	307	352	400	426	477	
	200	197	194	191	185	174	160	151	127	
50	95	156	221	246	300	350	398	421	470	
	252	249	246	243	238	228	212	194	161	
Max.cont. 60	78	145	213	238	289	342	386	412	459	
	304	301	298	294	286	276	262	243	218	
70	67	135	206	228	277	336	375	408	453	
	355	353	349	340	329	316	300	288	257	
Max.int. 75	58	125	197	220	270	321	360	398	442	
	382	379	373	362	350	337	322	312	278	

RW 250 [253.5cm³/rev.]

Pressure (MPa)		Max.cont.						Max.int.		
		5	7	9	10	12	14	16	17.5	20

Flow (L/min)	Pressure (MPa)									
	5	7	9	10	12	14	16	17.5	20	
5	175	243	304	342	407					
10	178	246	310	344	409	465	525			
	37	35	31	28	23	18	11			
20	175	244	308	340	408	463	520	558	636	
30	162	235	304	332	400	455	516	550	621	
	114	111	108	106	100	92	83	77	65	
40	143	223	300	329	396	447	512	546	617	
	154	152	150	147	143	132	120	110	90	
50	124	208	289	323	384	440	503	535	600	
	193	190	187	174	168	160	149	140	116	
Max.cont. 60	103	192	280	314	371	426	489	514	578	
	233	230	227	224	218	205	190	181	155	
70	88	178	264	301	356	418	479	498	560	
	273	270	267	263	252	242	226	209	173	
Max.int. 75	62	165	256	288	347	412	474	486	542	
	294	291	287	283	274	263	249	236	211	

RW 315 [317.5cm³/rev.]

Pressure (MPa)		Max.cont.					Max.int.		
		5	7	9	10	12	14	16	17.5

Flow (L/min)	Pressure (MPa)								
	5	7	9	10	12	14	16	17.5	
5	215	302							
10	218	305	383	422	488	551	622		
	28	27	25	24	21	18	13		
20	215	303	380	418	485	549	620	660	
30	60	59	57	55	52	49	45	42	
	204	296	375	413	480	542	613	654	
40	91	89	86	84	81	78	72	67	
	196	287	368	410	477	539	609	650	
50	122	120	117	112	106	100	94	85	
	176	270	356	393	461	526	597	645	
Max.cont. 60	154	151	147	140	131	120	109	100	
	162	246	339	374	446	511	586	628	
70	185	182	177	172	163	152	140	134	
	143	235	324	358	430	493	562	614	
Max.int. 75	217	213	208	201	190	178	166	158	
	125	212	303	339	417	481	543	582	
	232	228	222	216	208	200	183	171	

Torque (N·m) 481
Speed (rpm) 200

RW 400 [381.4cm³/rev.]

Pressure (MPa)		Max.cont.					Max.int.		
		3	4.5	5.5	6.5	8	10	12.5	14

Flow (L/min)	Pressure (MPa)								
	3	4.5	5.5	6.5	8	10	12.5	14	
5	153	232							
10	157	236	284	337	406	497	612	668	
	24	23	22	21	19	17	15	12	
20	150	232	280	332	401	490	606	660	
30	49	48	47	46	44	41	38	32	
	142	215	274	327	398	483	603	652	
40	76	75	74	73	71	67	63	50	
	126	212	268	320	393	477	593	635	
50	103	101	99	97	95	92	88	70	
	105	187	242	302	376	455	583	608	
Max.cont. 60	128	126	124	121	118	115	111	96	
	90	167	229	281	362	444	566	600	
70	154	152	150	148	145	138	130	121	
	90	149	200	258	341	425	546	580	
Max.int. 75	180	179	178	176	173	168	160	148	
	56	125	182	241	320	408	524	565	
	195	194	193	191	189	185	178	170	

cont.
int.



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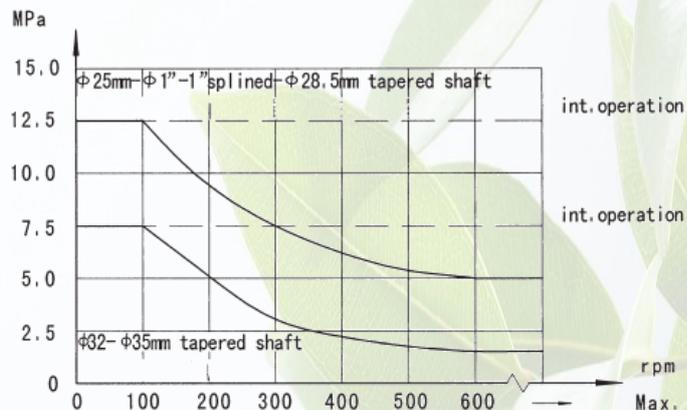
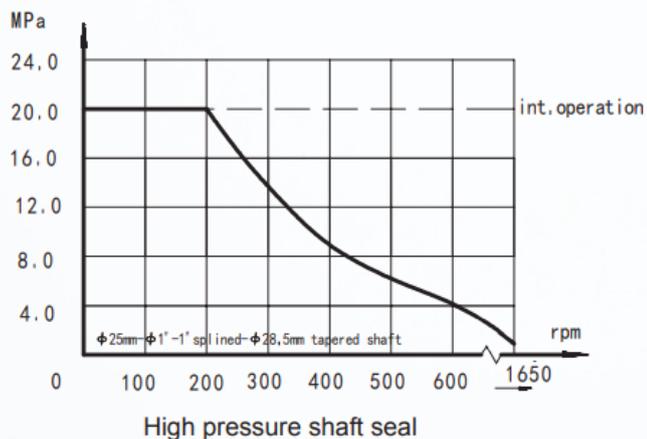
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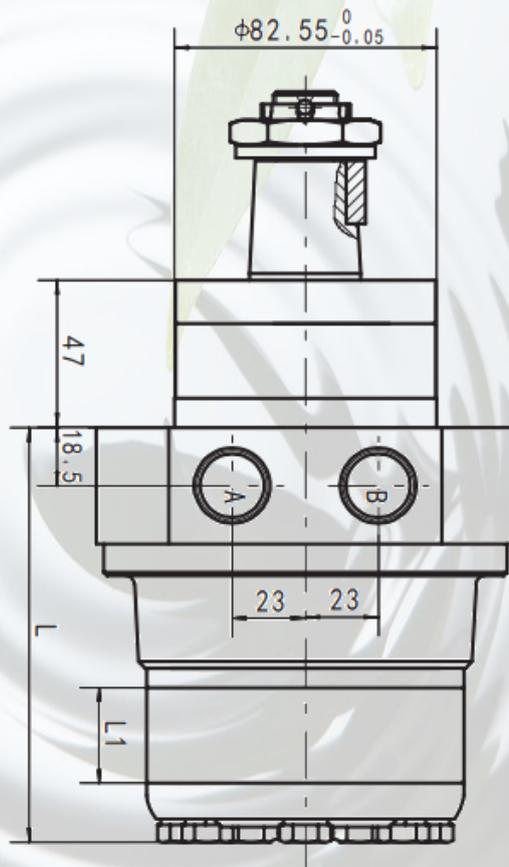


Permissible shaft seal pressure



Direction of shaft rotation

When facing shaft end of motor, shaft to rotate:
 Clockwise when port "A" is pressurized.
 Counter-clockwise port "B" is pressurized.



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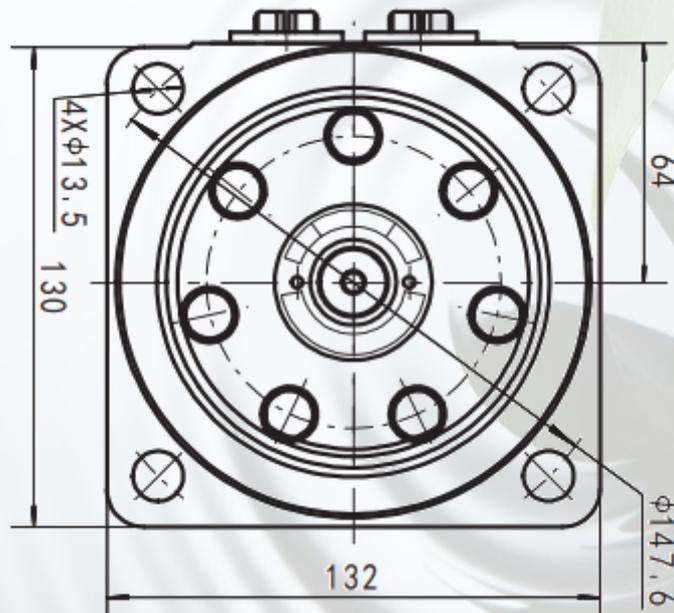
Oilflow drainline

Oil flow in drain line

The table shows the Max. oil flow in the drain line at a return pressure less than 0.5-1MPa.

Pressure drop (MPa)	Viscosity (mm ² /s)	Oil flow in the drain line (L/min.)
10	20	2.5
	35	1.8
14	20	3.5
	35	2.8

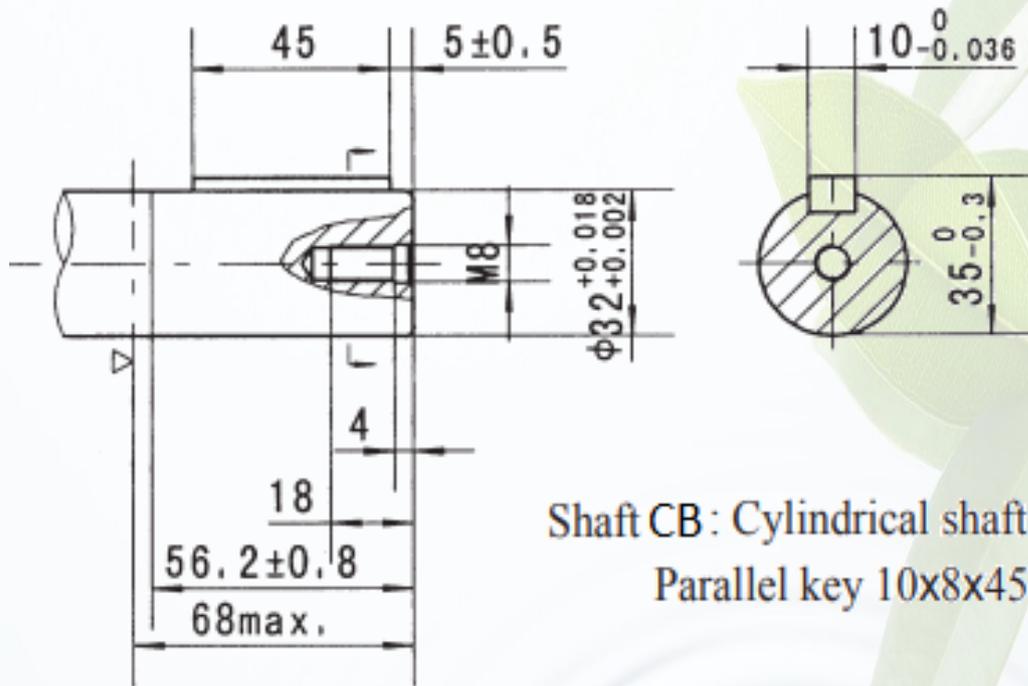
Mounting



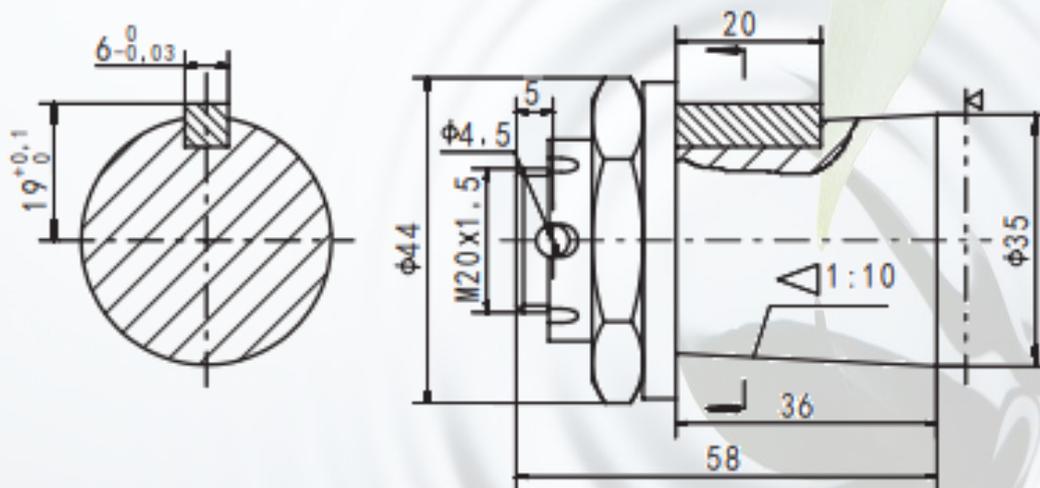
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Shaft extensions



Shaft CB: Cylindrical shaft $\phi 32$
Parallel key 10x8x45



Shaft KB: Cone-shaft $\phi 35$
Parallel key 6x6x20

Tightening torque: $200 \pm 10 \text{ Nm}$