

# 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 <sup>3</sup> /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.

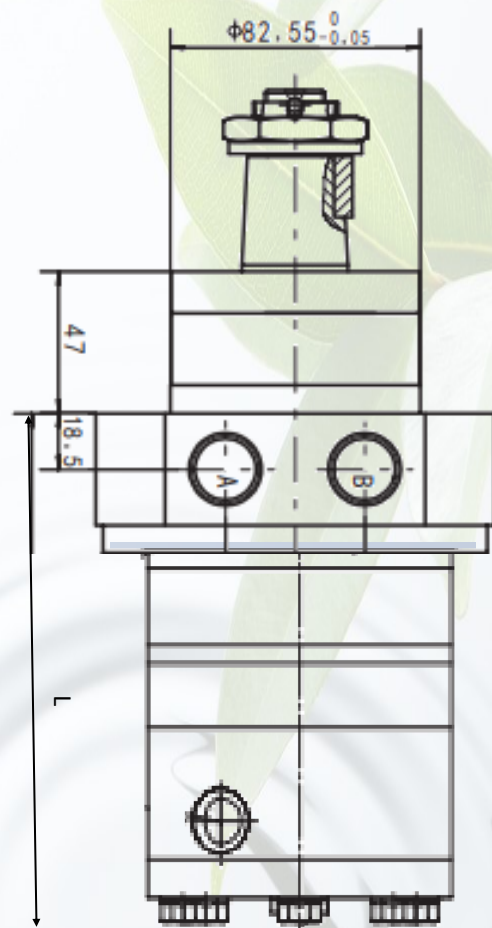
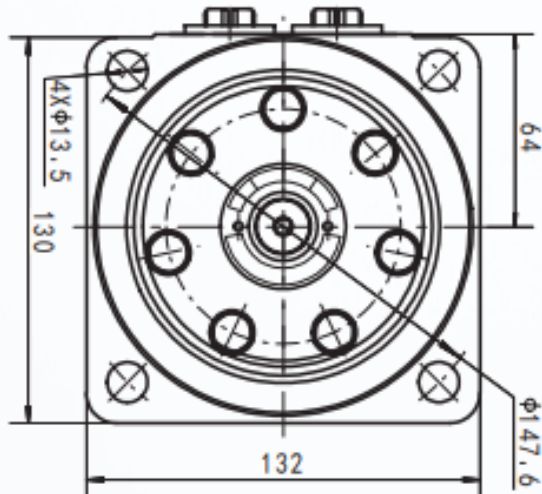
## Characteristic features:

- 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.

# B-RW Hydraulic orbit motor



Overview drawing



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

Code Mounting	G(depth)	M(depth)	S(depth)	P(depth)
P(A,B)	G1/2(15)	M22x1.5(15)	7/8-14O-ring(17)	1/2-14NPTF(15)
C	G1/4(12)	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 59	64 56	88 50	108 44	133 38				
	10	54 118	77 113	99 106	108 97	129 86	150 79	173 56		
20	57 238	78.0 234	102 227	111 216	134 203	155 190	177 178	196 154	225 135	
	30	54 360	75 352	100 340	108 332	131 316	152 302	176 290	195 274	223 250
40	48 480	73 470	96 458	105 445	127 430	148 418	172 403	190 388	220 359	
	50	42 604	70 595	93 582	102 570	124 556	147 540	170 521	188 504	218 487
Max.cont.	60	37 726	66 715	89 704	98 692	121 678	144 663	166 647	184 622	213 594
	70	32 845	60 834	83 820	95 802	116 789	140 767	160 754	177 730	208 705
Max.int.	75	21 910	50 895	78 881	90 867	111 852	135 830	154 806	171 787	200 756

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 45	92 42	120 38	135 34	156 27					
	10	68 93	96 90	125 86	138 81	159 74	188 57	212 42			
20	65 189	94.0 185	123 180	137 173	155 165	186 158	210 150	238 139	274 118		
	30	63 286	92 281	120 275	133 266	153 257	185 246	209 237	235 225	270 207	
40	57 385	88 378	117 365	130 355	152 345	185 332	208 320	233 314	267 297		
	50	48 482	79 477	110 470	123 460	150 448	183 435	204 420	228 405	260 389	
Max.cont.	60	38 580	70 572	105 560	120 548	144 535	178 523	200 510	220 500	252 478	
	70	32 678	65 670	100 660	118 648	141 638	176 626	197 615	215 606	246 580	
Max.int.	75	23 728	59 720	93 710	111 695	136 681	170 667	192 650	210 634	240 618	

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 36	110 31	145 25	167 19	189 13					
	10	84 73	118 70	155 60	176 48	202 36	228 25	253 19			
20	82 153	117 151	153 148	174 144	200 138	230 128	259 117	294 104	332 73		
	30	79 231	116 228	151 224	171 218	198 210	228 201	257 183	292 168	329 137	
40	72 309	114 307	148 303	168 298	196 292	226 280	256 270	290 252	327 218		
	50	62 389	105 386	143 382	165 378	195 370	223 360	254 344	287 328	323 292	
Max.cont.	60	52 467	98 463	136 459	160 456	191 448	220 427	250 410	282 399	319 352	
	70	41 545	90 542	130 538	156 534	187 529	215 520	242 508	278 486	313 430	
Max.int.	75	32 586	79 583	126 578	148 570	180 560	208 546	234 532	262 520	300 480	

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 26	146 23	190 20	210 16	245 10					
	10	107 59	150 56	195 50	216 45	250 37	290 30	335 22			
20	102 121	151 118	198 115	220 113	257 108	298 102	342 97	370 90	420 78		
	30	97 184	146 178	190 173	217 170	256 164	295 155	340 143	368 128	416 103	
40	89 246	140 241	185 235	210 228	252 220	290 210	335 194	363 177	412 150		
	50	72 310	128 307	179 300	202 295	244 287	284 278	327 262	358 247	409 210	
Max.cont.	60	60 374	116 367	170 359	198 354	240 346	279 338	321 323	352 306	400 265	
	70	49 437	107 430	164 421	193 415	233 403	271 393	309 381	344 365	390 318	
Max.int.	75	36 472	98 463	152 450	185 441	226 431	265 420	300 405	334 389	379 365	

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## Performance data

RW 200 [194.5cm<sup>3</sup>/rev.]

Pressure (MPa)

5 7 9 10 12 14 16 17.5 20

Flow (L/min)	5	7	9	10	12	14	16	17.5	20
5	132	181	238	262	310				
10	135	186	240	264	315	356	403		
20	131	183	238	260	314	358	404	438	498
30	126	178	233	254	311	355	402	431	486
40	112	169	228	250	307	352	400	426	477
50	95	156	221	246	300	350	398	421	470
60	78	145	213	238	289	342	386	412	459
70	67	135	206	228	277	336	375	408	453
75	58	125	197	220	270	321	360	398	442

RW 250 [253.5cm<sup>3</sup>/rev.]

Pressure (MPa)

5 7 9 10 12 14 16 17.5 20

Flow (L/min)	5	7	9	10	12	14	16	17.5	20
5	175	243	304	342	407				
10	178	246	310	344	409	465	525		
20	175	244	308	340	408	463	520	558	636
30	162	235	304	332	400	455	516	550	621
40	143	223	300	329	396	447	512	546	617
50	124	208	289	323	384	440	503	535	600
60	103	192	280	314	371	426	489	514	578
70	88	178	264	301	356	418	479	498	560
75	62	165	256	288	347	412	474	486	542

RW 315 [317.5cm<sup>3</sup>/rev.]

Pressure (MPa)

5 7 9 10 12 14 16 17.5

Flow (L/min)	5	7	9	10	12	14	16	17.5
5	215	302						
10	218	305	383	422	488	551	622	
20	215	303	380	418	485	549	620	660
30	204	296	375	413	480	542	613	654
40	196	287	368	410	477	539	609	650
50	176	270	356	393	461	526	597	645
60	162	246	339	374	446	511	586	628
70	143	235	324	358	430	493	562	614
75	125	212	303	339	417	481	543	582

RW 400 [381.4cm<sup>3</sup>/rev.]

Pressure (MPa)

3 4.5 5.5 6.5 8 10 12.5 14

Flow (L/min)	3	4.5	5.5	6.5	8	10	12.5	14
5	153	232						
10	157	236	284	337	406	497	612	668
20	150	232	280	332	401	490	606	660
30	142	215	274	327	398	483	603	652
40	126	212	268	320	393	477	593	635
50	105	187	242	302	376	455	583	608
60	90	167	229	281	362	444	566	600
70	80	149	200	258	341	425	546	580
75	56	125	182	241	320	408	524	565

Torque (N·m) 481  
Speed (rpm) 200

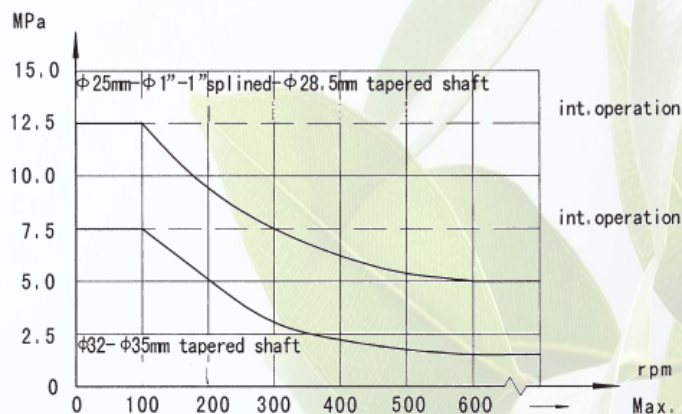
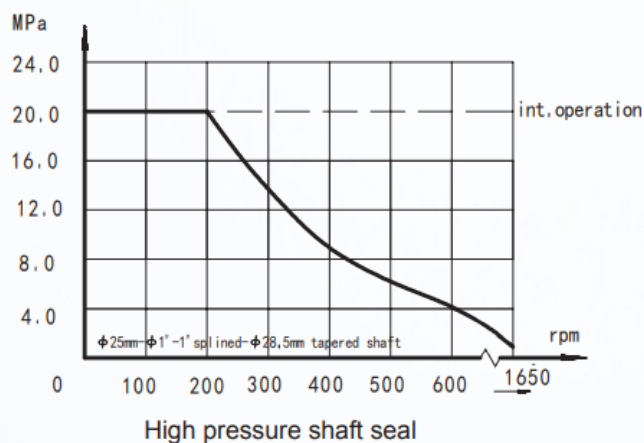
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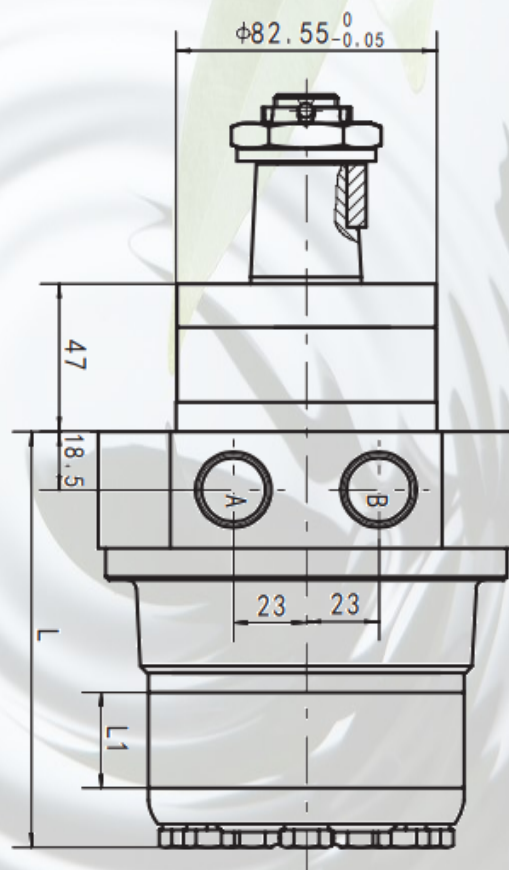


## Permissible shaft seal pressure



## 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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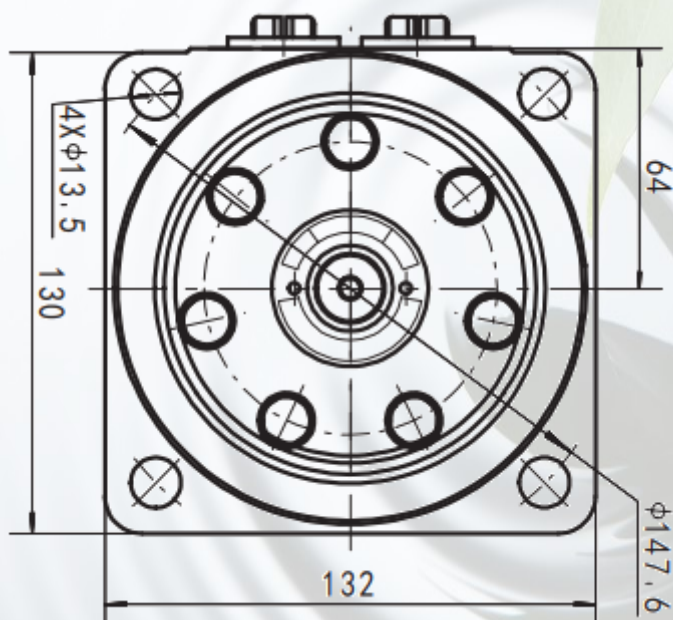
## Oilflow drainline

### 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 <sup>2</sup> /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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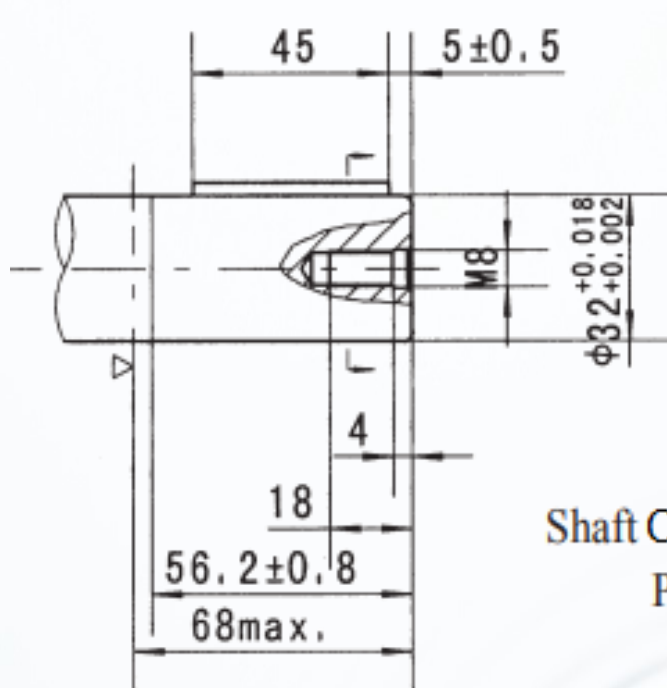
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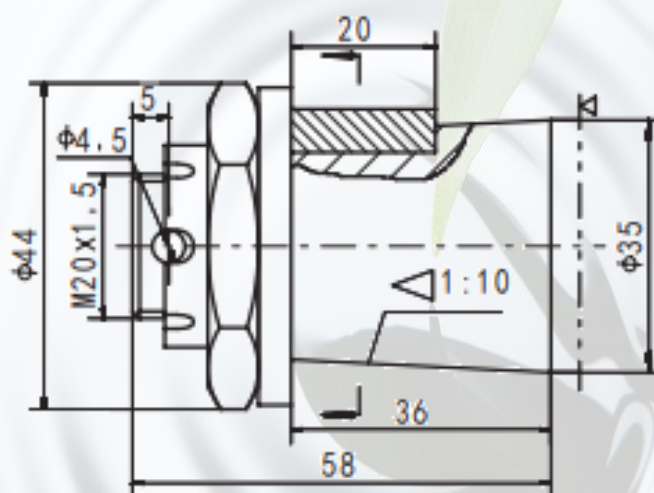
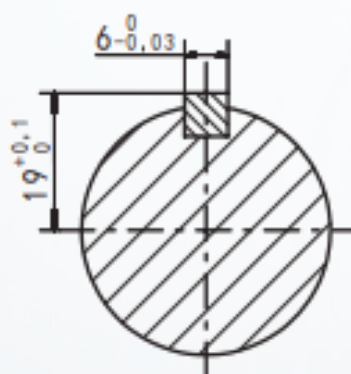
# B-RW Hydraulic orbit motor



## Shaft extensions



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



Shaft KB: Cone-shaft  $\varnothing 35$   
Parallel key 6x6x20  
Tightening torque:  $200 \pm 10 \text{ Nm}$

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