

Main specifications:

Technical data fo	r MR with 25ı	mm shaf	t							
Tuno		MR	MR	MR	MR	MR	MR	MR	MR	MR
Type		50	80	100	125	160	200	250	315	400
Geometric displacem	ent (cm3/rev.)	51.7	81.5	102	127.2	157.2	194.5	253.3	317.5	381,4
NASA SESSE (MEMOR)	cont.	960	750	600	475	378	310	240	190	155
Max. speed (rpm)	int.	1150	940	750	600	475	385	300	240	190
	cont.	100	195	240	300	360	360	390	390	365
Max. torque (Nm)	int.	126	220	280	340	430	440	490	535	495
(1411)	peak	165	270	320	370	460	560	640	650	680
Max. output	cont.	9.5	12.5	13	12.5	12.5	10	7	6	5
(KW)	int.	11.2	15	15	14.5	14	13	9.5	9	8
	cont.	140	175	175	175	165	130	110	90	70
Max. pressure drop (Bar)	int.	175	200	200	200	200	175	150	130	100
(bai)	peak	225	225	225	225	225	225	200	175	150
Max flow	cont.	50	60	60	60	60	60	60	60	60
(L/min)	int.	60	75	75	75	75	75	75	75	75
Weight (kg)		6.7	6.9	7	7.3	7.6	8	8.5	9.0	9.5

^{*} Continuous pressure: Max. value of operating motor continuously.

MR 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.



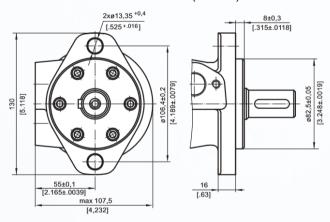
^{*} Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

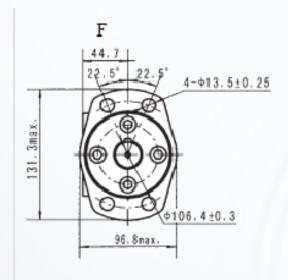
^{*} Peak pressure: Max. value of operating motor in 0.6 second per minute

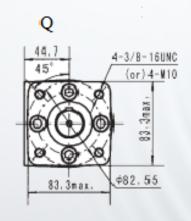


Standard

Oval Mount (2 Holes)











Performance Data

		MR 5	MR 50 [51.7cm ³ /rev.]									
		Press	sure (1	MPa)			Max.cont.		Max.int.			
		5	7	9	10	12	16	17.5				
- 1		35	45	61	67	77	88					
	5	93	84	76	73	69	46					
		36	46	62	69	80	95	108	120			
	10	186	178	166	162	153	136	118	97			
(L/min)		35	49	63	73	88	100	109	123			
Æ	15	283	277	269	261	250	230	211	185			
린		34.5	47	61	69	83	96	109	126			
Flow	20	377	375	365	361	346	330	302	270			
Ĕ		33	44	60	67	80	95	108	126			
	30	576	569	561	554	542	531	500	465			
		30	41	58	66	79	92	106	122			
	40	760	758	753	750	738	724	700	670			
		29.5	40	57	65	78	90	105	121			
	45	856	853	849	845	835	815	796	770			
		26	37	53	60	73	85	99	114			
Max.cont.	50	950	940	925	906	880	852	832	801			
		20	33	48	56	69	81	95	109			
Max.int.	60	1138	1124	1100	1075	1056	1028	1006	970			

		MR 8	0 [81.5	5cm³/re	ev.]					
		Press	sure (l	MPa)			Max.cont.			Maxint.
		5	7	9	10	12	14	16	17.5	20
1		E0.	64	00	100	122	/			
	5	50 59	56	88 50	108 44	133 38				
		54	77	99	108	129	150	173		
	10	118	113	106	97	86	79	56		
(L/min)		57	78.0	102	111	134	155	177	196	225
E	20	238	234	227	216	203	190	178	154	135
		54	75	100	108	131	152	176	195	223
Flow	30	360	352	340	332	316	302	290	274	250
Ĕ		48	73	96	105	127	148	172	190	220
	40	480	470	458	445	430	418	403	388	359
		42	70	93	102	124	147	170	188	218
	50	604	595	582	570	556	540	521	504	487
		37	66	89	98	121	144	166	184	213
Max.cont.	60	726	715	704	692	678	663	647	622	594
		32	60	83	95	116	140	160	177	208
	70	845	834	820	802	789	767	754	730	705
		21	50	78	90	111	135	154	171	200
Max.int.	75	910	895	881	867	852	830	806	787	756

Torque (N•m) 135 Speed (rpm) 830

		Press	sure (I							
								Max.cont.	4==	Max.int.
		5	7	9	10	12	14	16	17.5	20
		66	92	120	135	156				
	5									
	5	45	42	38	34	27				
		68	96	125	138	159	188	212		
	10	93	90	86	81	74	57	42		
<u>=</u>		65	94.0	123	137	155	186	210	238	274
(Umin)	20	189	185	180	173	165	158	150	139	118
ᆜ		63	92	120	133	153	185	209	235	270
≥	30	286	281	275	266	257	246	237	225	207
Flow		57	88	117	130	152	185	208	233	267
	40	385	378	365	355	345	332	320	314	297
		48	79	110	123	150	183	204	228	260
	50	482	477	470	460	448	435	420	405	389
		38	70	105	120	144	178	200	220	252
ex.cont.	60	580	572	560	548	535	523	510	500	478
		32	65	100	118	141	176	197	215	246
	70	678	670	660	648	638	626	615	606	580
		23	59	93	111	136	170	192	210	240
fax.int.	75	728	720	710	695	681	667	650	634	618

cont int.

MR 100 [102cm3/rev.]

MR 125 [127.2cm3/rev.] Pressure (MPa) 16 17.5 20 Flow

TAON
Hydraulik Komponenter



Performance Data

	MR 160 [157.2cm³/rev.]									
		Press	ure (l	MPa)		Max.cont.		Max.int.		
		5	7	9	10	12	14	16	17.5	20
		104	146	190	210	245				
	5	26	23	20	16	10				
							200	005		
		107	150	195	216	250	290	335		
	10	59	56	50	45	37	30	22		
<u>:</u>		102	151	198	220	257	298	342	370	420
(L/min)	20	121	118	115	113	108	102	97	90	78
		97	146	190	217	256	295	340	368	416
≥ .	30	184	178	173	170	164	155	143	128	103
Flow		89	140	185	210	252	290	335	363	412
	40	246	241	235	228	220	210	194	177	150
		72	128	179	202	244	284	327	358	409
	50	310	307	300	295	287	278	262	247	210
		60	116	170	198	240	279	321	352	400
Max.cont.	60	374	367	359	354	346	338	323	306	265
		49	107	164	193	233	271	309	344	390
	70	437	430	421	415	403	393	381	365	318
		36	98	152	185	226	265	300	334	379
Maxint.	75	472	463	450	441	431	420	405	389	365

		WIT Z	00[19	4.50111	i /iev.j					
		Press	sure (l	MPa)				Max.cont.		Max int.
		5	7	9	10	12	14	16	17.5	20
		132	181	238	262	310				
	5	24	22	18	13	10				
		135	186	240	264	315	356	403		
	10	49	47	45	43	38	33	24		
(L/min)		131	183	238	260	314	358	404	438	498
Ę	20	99	97	94	92	88	83	74	64	56
		126	178	233	254	311	355	402	431	486
Flow	30	149	147	144	141	135	126	113	105	91
표		112	169	228	250	307	352	400	426	477
	40	200	197	194	191	185	174	160	151	127
		95	156	221	246	300	350	398	421	470
	50	252	249	246	243	238	228	212	194	161
		78	145	213	238	289	342	386	412	459
Max.cont.	60	304	301	298	294	286	276	262	243	218
		67	135	206	228	277	336	375	408	453
	70	355	353	349	340	329	316	300	288	257
		58	125	197	220	270	321	360	398	442
Max.int.	75	382	379	373	362	350	337	322	312	278

MR 200 [194.5cm3/rev.]

cont.

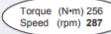
		IVIPS 2								
		Press	sure (l	MPa)				Max.cont.		Max.int.
		5	7	9	10	12	14	16	17.5	20
		175	243	304	342	407				
	5	17	16	14	12	10				
		178	246	310	344	409	465	525		
	10	37	35	31	28	23	18	11		
(L/min)		175	244	308	340	408	463	520	558	636
Ę	20	75	73	72	70	66	58	53	50	42
		162	235	304	332	400	455	516	550	621
8	30	114	111	108	106	100	92	83	77	65
Flow		143	223	300	329	396	447	512	546	617
	40	154	152	150	147	143	132	120	110	90
		124	208	289	323	384	440	503	535	600
	50	193	190	187	174	168	160	149	140	116
		103	192	280	314	371	426	489	514	578
ax.cont.	60	233	230	227	224	218	205	190	181	155
		88	178	264	301	356	418	479	498	560
	70	273	270	267	263	252	242	226	209	173

MR 250 (253 5cm3/rev)

MR 315 [317.5cm³/rev.]

Pressure (MPa)

Torque (N•m) 481 Speed (rpm) 200





Performance Data

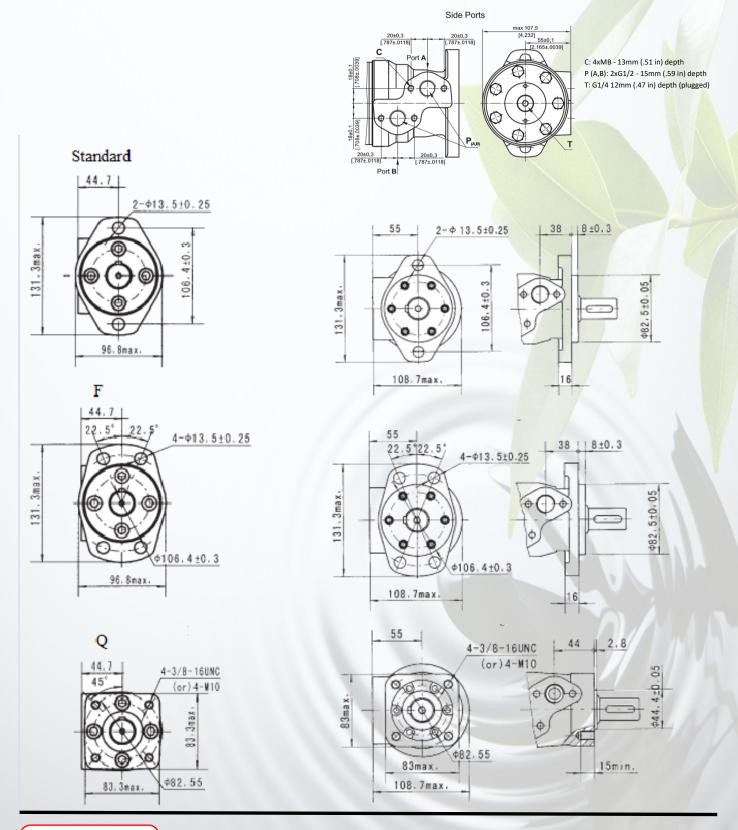
MR 4	00 [381	.4cm ³ /	rev.]
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							-				
		Pre	ssure	(MPa)		Max.cont.				
		3	4.	5 5.5	6.5	8	10	12.5	14		
		45	222	2							
	5	153		_							
	5	12	$\overline{}$		_	-	_	-			
		15	7 23	6 28	4 337	406	497	612	668		
	10	2	1 2	3 2	2 21	19	17	15	12		
Ē		150	23	2 28	332	401	490	606	660		
(Umin)	20	49	9 4	8 4	7 46	44	41	38	32		
2		143	2 21	5 27	4 327	398	483	603	652		
Flow	30	70	5 7	5 7	4 73	71	67	63	50		
Ĕ		126	3 21	2 26	320	393	477	593	635		
	40	103	3 10	1 9	9 97	95	92	88	70		
		108	5 18	7 24	2 302	376	455	583	608		
	50	12	3 12	6 12	4 121	118	115	111	96		
		90	16	7 22	9 281	362	444	566	600		
Max.cont.	60	154	1 15	2 15	0 148	145	138	130	121		
		90	14	9 20	258	341	425	546	580		
	70	180	17	9 17	8 176	173	168	160	148		
		56	3 12	5 183	2 241	320	408	524	565		
Max.int.	75	198	5 19	4 19:	3 191	189	185	178	170		

cont.



MR Dimensions and Mounting data





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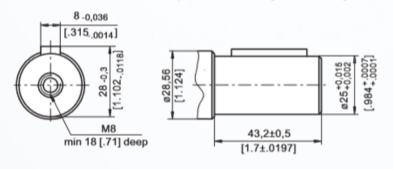
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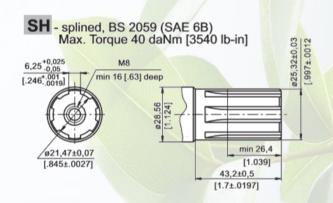
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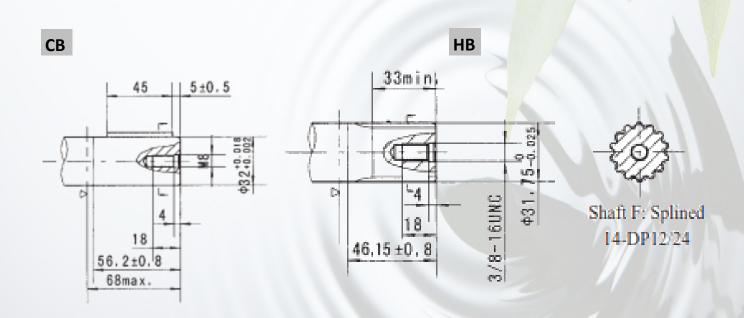
Shaft extensions



C - ø25 straight, Parallel key A8x7x32 DIN 6885 Max. Torque 34 daNm [3010 lb-in]





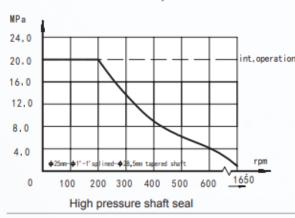


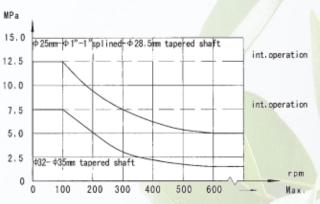




MR, MRS Series Hydraulic Motor

Permissible shaft seal pressure

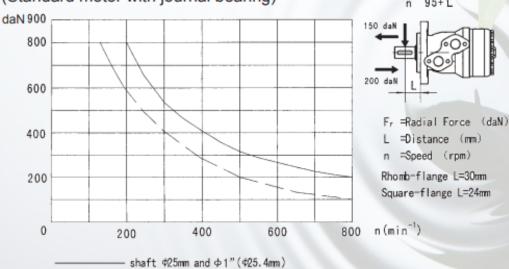




In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

Status of the shaft's radial force (Standard motor with journal bearing)

shaft ¢32mm



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	Viscosity	Oil flow in		
drop	(mm2/s)	the drain		
(MPa)		line (L/min.)		
10	20	2.5		
10	35	1.8		
14	20	3.5		
14	35	2.8		

