

Technical data fo	r MSW*									
Туре		MSW 80	MSW 100	MSW 125	MSW 160	MSW 200	MSW 250	MSW 315	MSW 400	MSW 475
Displacement (cm³/rev.)		80.6	100.8	125	154	194	243	311	394	475
Max. speed (RPM)	cont.	800	748	600	470	375	300	240	185	155
wax. speed (KPIVI)	int	988	900	720	560	450	360	280	225	185
Max. Torque	cont.	225	290	365	485	586	708	880	880	910
(Nm)	int	305	390	480	590	705	860	1000	980	990
Max. Output	cont.	16	18	18	18.1	18.1	18	17	11	9
(kW)	int	20	22	23	25	24	23.8	20.2	12	11
	cont.	205	205	205	210	210	200	200	160	140
Max. Pressure Drop (Bar)	int	275	275	275	260	250	250	240	190	150
(Bai)	Peak	295	295	295	280	270	270	260	210	175
Max Oil Flow	cont.	65	75	75	75	75	75	75	75	75
(L/min)	int	80	90	90	90	90	90	90	90	90
Max. Inlet	cont.	250	250	250	250	250	250	250	250	250
Pressure (Bar)	int	300	300	300	300	300	300	300	300	300
Weight (kg)		9.8	10	10.3	10.7	11.1	11.6	12.3	13.2	14.3

^{*}All engines are reinforced

MS series motor adapt the advanced Geroler gear set designed with disc distribution flow and high pressure.

The unit can be supplied the individual variant in operating multifunction in accordance with requirement of applications.



CHARACTERISTICS FEATURES

- Advanced manufacturing devices for the Gerolor gear set, which use low pressure of start-up, provide smooth, reliable operation and high efficiency.
- The output shaft adapts in tapered roller bearings that permit high axial and radial forces. The case can offer capacities of high pressure and high torque in the wide of applications.
- Advanced design in disc distribution flow, which can automatically compensate in operating with high volume efficiency and long life, provide smooth and reliable operation.
- The new series motor is suitable for vehicles with greater loads and pressure drop.



^{*}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



PERFORMANCE DATA

	MSW80 [80.6cm³/rev.]								MSW	100	[100.80	cm³/rev	v.]			
		Press	sure ((MPa)			Max.cont.	Max.int.			Press	ure (MPa)			Max.cont.	Max.int.
		3.5	7	10.5	14	17.5	20.5	22.5			3.5	7	10.5	14	17.5	20.5	22.5
		35	80	120	158	195	228	249			48	95	150	200	250	282	310
	15	180	174	168	164	158	151	143		15	146	144	139	135	130	120	105
		35	80	120	158	195	232	260			45	94	146	198	250	290	317
	30	362	352	346	338	330	322	310		30	291	289	278	274	269	258	242
(L/min)		35	79	119	155	193	227	250	(L/min)		43	89	142	196	248	288	316
Ę	40	487	480	468	457	446	438	425	"L	40	387	384	374	359	350	335	320
		30	77	117	153	192	224	248	7		40	88	135	194	247	286	315
Flow	50	612	603	592	581	572	558	542	Flow	50	486	483	473	462	450	430	420
프		28	77	117	153	192	224	243	H		37	88	132	185	244	283	312
	60	735	726	718	703	687	673	646		60	588	584	574	562	550	538	520
.,		26	75	116	151	188	217	236			35	80	130	180	240	279	310
Max.cont.	65	794	786	773	760	744	722	706	/lax.cont.	75	740	735	720	705	696	676	653
Max.int.		24	72	109	142	176	206	227	Mayiet		30	75	124	170	236	271	303
IVIGA.IIIL.	80	981	968	955	925	893	870	832	Max.int.	90	850	840	810	787	770	750	747

	MSW125 [125cm³/rev.]									MSW	V160	[154cm	n³/rev.]			
		Press	ure (MPa)			Max.cont.	Max.int.			Pressure (MPa)				Max.cont. Max.int.		
		3.5	7	10.5	14	17.5	20.5	22.5			3.5	7	10.5	14	17.5	21	22.5
[55	120	176	245	309	345	375			70	142	215	298	372	435	476
	15	115	113	110	104	98	90	84		15	93	91	89	85	80	76	58
		55	120	175	250	315	364	404			73	151	225	312	382	456	492
	30	231	228	223	214	202	188	172		30	189	187	181	176	170	162	153
(L/min)		53	118	178	250	315	364	403	Ë		75	152	228	314	383	454	488
퇵	40	312	309	290	289	278	262	235	(L/min)	40	252	250	246	239	234	228	212
7		50	115	176	248	315	362	397			70	148	225	305	372	445	480
Flow	50	391	386	378	365	352	339	308	Flow	50	313	310	306	298	293	285	272
윤		45	113	171	241	308	358	397	프		68	143	218	296	370	442	480
	60	469	461	450	437	425	400	372		60	378	376	370	362	353	346	332
		45	110	167	240	306	352	389			62	140	211	291	365	439	475
Max.cont.	75	588	574	560	544	526	505	481	Max.cont.	75	475	469	461	450	441	432	414
		40	105	162	237	301	343	378	Marriet		59	131	202	286	357	425	460
Max.int.	90	710	696	680	661	/646	628	610	Max.int.	90	567	561	554	543	532	520	509
					$/\!\!\!\!/$												
	TORQUE(N•m) 301															cont.	
	SPEED (r/min) 646														int.		





PERFORMANCE DATA (continued)

	MSW	200	[194cm	n³/rev.]					MSW	250	[243cm	n³/rev.]			
		Press	sure (MPa)			Max.cont.	Max.int.			Press	ure ((MPa)			Max.cont.	Max.int.
		3.5	7	10.5	14	17.5	21	22.5			3.5	7	10.5	14	17.5	20	22.5
		87	179	273	371	471	562	610			110	231	351	462	585	681	778
	15	74	73	71	68	64	60	48		15	59	58	56	53	50	46	35
		91	190	288	386	489	572	618			116	236	359	475	597	700	790
	30	150	148	143	140	134	128	119		30	119	117	114	108	102	92	80
(L/min)		94	193	296	394	498	584	645	(L/min)		118	241	363	480	599	706	796
L,	40	198	195	192	188	183	178	167	E.	40	162	159	156	150	143	134	121
7		90	191	292	389	493	580	634			111	234	352	472	591	693	788
Flow	50	248	246	241	236	230	223	212	Flow	50	203	201	197	191	182	173	158
畄		85	185	279	382	483	575	622	프		106	224	345	462	582	685	772
	60	300	295	288	281	273	263	251		60	244	242	237	230	220	208	194
		78	176	271	370	472	561	610			101	214	340	454	570	670	760
Max.cont.	75	374	370	364	360	352	340	331	Max.cont.	75	303	299	294	285	272	260	244
Max.int.		68	163	265	361	456	545	599	Max.int.		93	209	335	447	559	657	749
IVIAX.IIIL.	90	443	440	435	428	424	413	400	ividX.IIIL.	90	363	359	354	348	340	328	303

	MSW	315	[311cm	n³/rev.]			
		Press	ure (MPa)			Max.cont.	Max.int.
		3.5	7	10.5	14	17.5	20	22.5
		148	304	456	613	762	879	978
	15	48	47	45	43	41	39	27
		155	314	465	635	778	884	988
	30	95	93	91	89	86	82	67
(L/min)		160	321	479	650	796	906	997
/m	40	127	125	121	117	115	109	91
7		155	314	465	638	780	886	988
Flow	50	159	157	153	149	145	142	128
吕		151	306	453	620	765	886	976
	60	187	185	181	176	169	157	143
		146	300	445	613	755	875	966
Max.cont.	75	238	236	232	227	224	220	196
Manifest		135	284	436	601	740	863	952
Max.int.	90	286	283	278	272	265	257	232

	MSW	/400	l	394cm	า³/rev.]		
		Press	sure (MPa)		Max.cont.	Max.int.
		3.5	7	10.5	14	16	17.5
		186	379	578	779	896	986
	15	37	36	35	33	31	29
		190	388	590	791	905	991
	30	75	73	71	68	65	61
(L/min)		195	394	596	797	912	998
"	40	99	97	95	93	90	85
(L		191	388	587	785	904	983
Flow	50	125	123	118	114	109	102
Flo		186	388	587	785	904	983
	60	149	146	142	137	131	122
		181	372	576	770	891	973
Max.cont.	75	187	183	177	171	164	153
Marria		176	367	571	766	883	965
Max.int.	90	226	221	214	/208	199	183
					,		

TORQUE (N•m) 766 SPEED (rpm) 208





PERFORMANCE DATA (continued)

•	111011-175 [
	Pressure (MPa) Max.cont. Max.int.								
		3.5	7	10.5	14	15			
		218	439	661	892	995			
	15	30	29	28	27	25			
		223	450	676	910	1002			
	30	61	60	58	56	53			
(L/min)		228	461	689	927	1017			
"	40	82	80	77	74	68			
7		224	456	682	920	1008			
>	50	103	101	97	92	86			
Flow		220	451	677	913	998			
	60	123	121	118	112	105			
		212	443	664	901	980			
Max.cont.	75	155	153	147	140	132			
May int		196	421	643	877	959			
Max.int.	90	186	184	178	170	157			

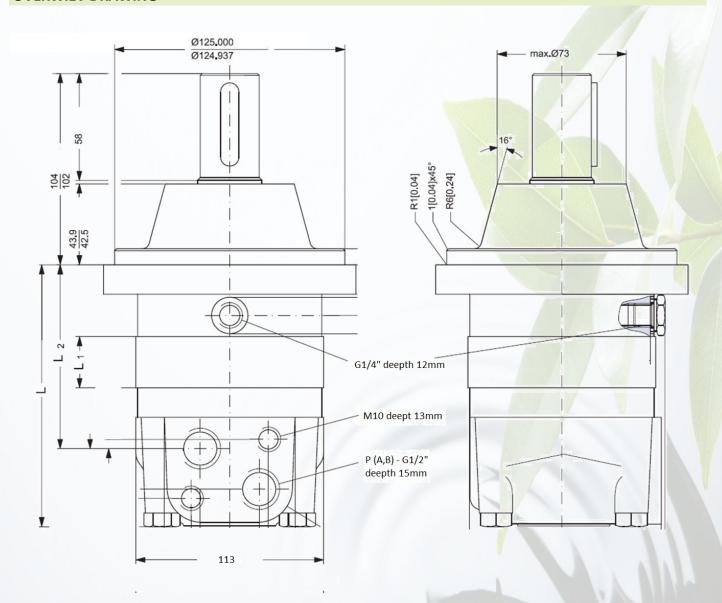








OVERWIEV DRAWING

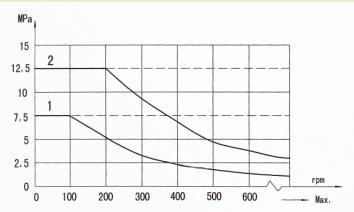


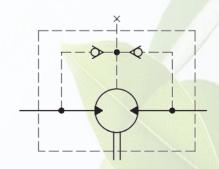
Model	MSW 80	MSW 100	MSW 125	MSW 160	MSW 200	MSW 250	MSW 315	MSW 400	MSW 475
L	132,5mm	136,5mm	141,5mm	143,5mm	150,5mm	158,5mm	170,5mm	185,5mm	199,5mm
L1	16mm	20mm	25mm	27mm	34mm	42mm	54mm	69mm	83mm
L2	89mm	93mm	98mm	100mm	107mm	115mm	127mm	142mm	156mm





PERMISSIBLE SHAFT SEAL PRESSURE

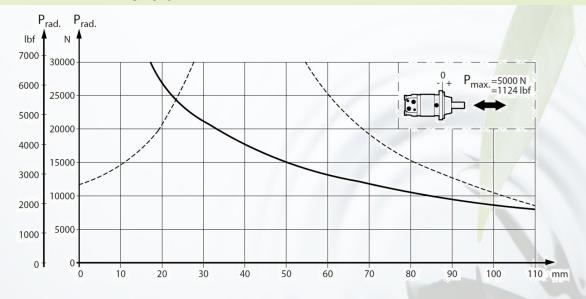




Note: 1. Chart for standard shaft seal;

2. Chart for high pressure shaft seal.

AXIAL AND RADIAL FORCES



OIL FLOW IN DRAIN LINE

The table shows the max. oil flow in the drain line at the return pressure less than 5-10 Bar.

Pressure drop	Viscosity	Oil flow in the drain
(Bar)	(mm²/s)	line (L/min.)
140	20	1.5
140	35	1
210	20	3
210	35	2



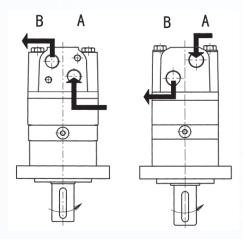
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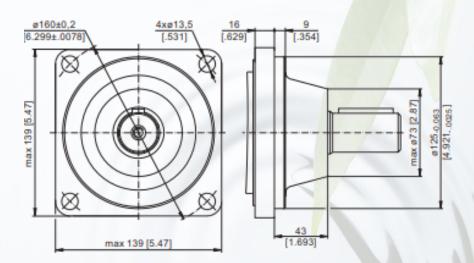
STANDARD DIRECTION OF SHAFT ROTATION



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

MOUNTING

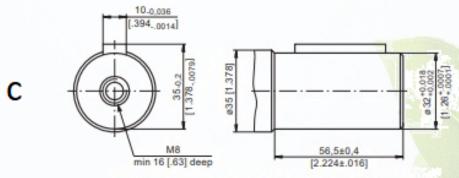
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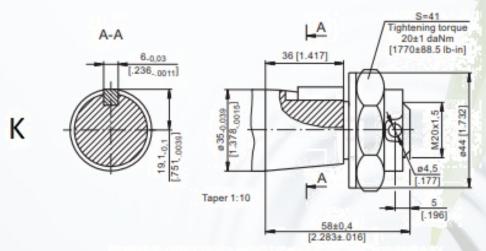




SHAFT EXTENSIONS



ø32 straight, Parallel key A10x8x45 DIN 6885 Max. Torque 77 daNm [6815 lb-in]



tapered 1:10, Parallel key B6x6x20 DIN 6885 Max. Torque 95 daNm [8400 lb-in]

