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**A WIDE RANGE OF
ORBITAL MOTORS**

Sauer-Danfoss is a world leader within production of low speed orbital motors with high torque. We can offer more than 1600 different orbital motors, categorised in types, variants and sizes (incl. different shaft versions).

The motors vary in size (rated displacement) from 8 cm³ [0.50 in³] to 800 cm³ [48.9 in³] per revolution.

Speeds range up to approx. 2500 min⁻¹ (rpm) for the smallest type and up to approx 600 min⁻¹ (rpm) for the largest type.

Maximum operating torques vary from 13 Nm [115 lbf-in] to 2700 Nm [24.000 lbf-in] (peak) and maximum outputs are from 2.0 kW [2.7 hp] to 70 kW [95 hp].

Characteristic features:

- Smooth running over the entire speed range
- Constant operating torque over a wide speed range
- High starting torque
- High return pressure without the use of drain line (High pressure shaft seal)
- High efficiency
- Long life under extreme operating conditions
- Robust and compact design
- High radial and axial bearing capacity
- For applications in both open and closed loop hydraulic systems
- Suitable for a wide variety of hydraulics fluids

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CODE NUMBERS

CODE NUMBERS	Displacement [cm ³]									Technical data – Page	Shaft loads – Page	Dimensions – Page
	80	100	125	160	200	250	315	400	500			
151F	0500	0501	0502	0503	0504	0505	0506	0605	–	8	11	23
151F	2200	2201	2202	2203	2204	2205	2206	2261	2268	8	11	24
151F	0507	0508	0509	0510	0511	0512	0513	–	–	8	11	23
151F	2207	2208	2209	2210	2211	2212	2213	2262	2269	8	11	24
151F	0514	0515	0516	0517	0518	0519	0520	–	–	8	11	23
151F	2214	2215	2216	2217	2218	2219	2220	2264	2270	8	11	24
151F	0560	0561	0562	0563	0564	0565	0566	–	–	8	11	23
151F	0542	0543	0544	0545	0546	0547	0548	–	–	8	12	25
151F	2300	2301	2302	2303	2304	2305	2306	2307	2345	8	12	26
151F	2316	2317	2318	2319	2320	2321	2322	2323	2347	8	11	26
151F	2308	2309	2310	2311	2312	2313	2314	2315	2346	8	12	26
151F	2324	2325	2326	2327	2328	2329	2330	2331	2348	8	11	26
151F	2332	2333	2334	2335	2336	2337	2338	2339	2349	8	11	26
151F	2377	2378	2379	2380	2381	2382	2383	2384	2385	8	12	27
151F	2368	2369	2370	2371	2372	2373	2374	2375	2376	8	11	27
151F	2359	2360	2361	2362	2363	2364	2365	2366	2367	8	12	27
151F	2350	2351	2352	2353	2354	2355	2356	2357	2358	8	11	27
151F	2395	2396	2397	2398	2399	2400	2401	2402	2403	8	11	28
151F	2413	2414	2415	2416	2417	–	–	–	–	8	13	28
151F	0521	0522	0523	0524	0525	0526	0527	0610	–	8	11	29
151F	2235	2236	2237	2238	2239	2240	2241	2265	2266	8	11	30
151F	0528	0529	0530	0531	0532	0533	0534	0609	–	8	11	29
151F	2242	2243	2244	2245	2246	2247	2248	2263	2267	8	11	30
151F	0535	0536	0537	0538	0539	0540	0541	0608	–	8	–	31
	14	14	15	15	16	16	17	17	18			

Ordering

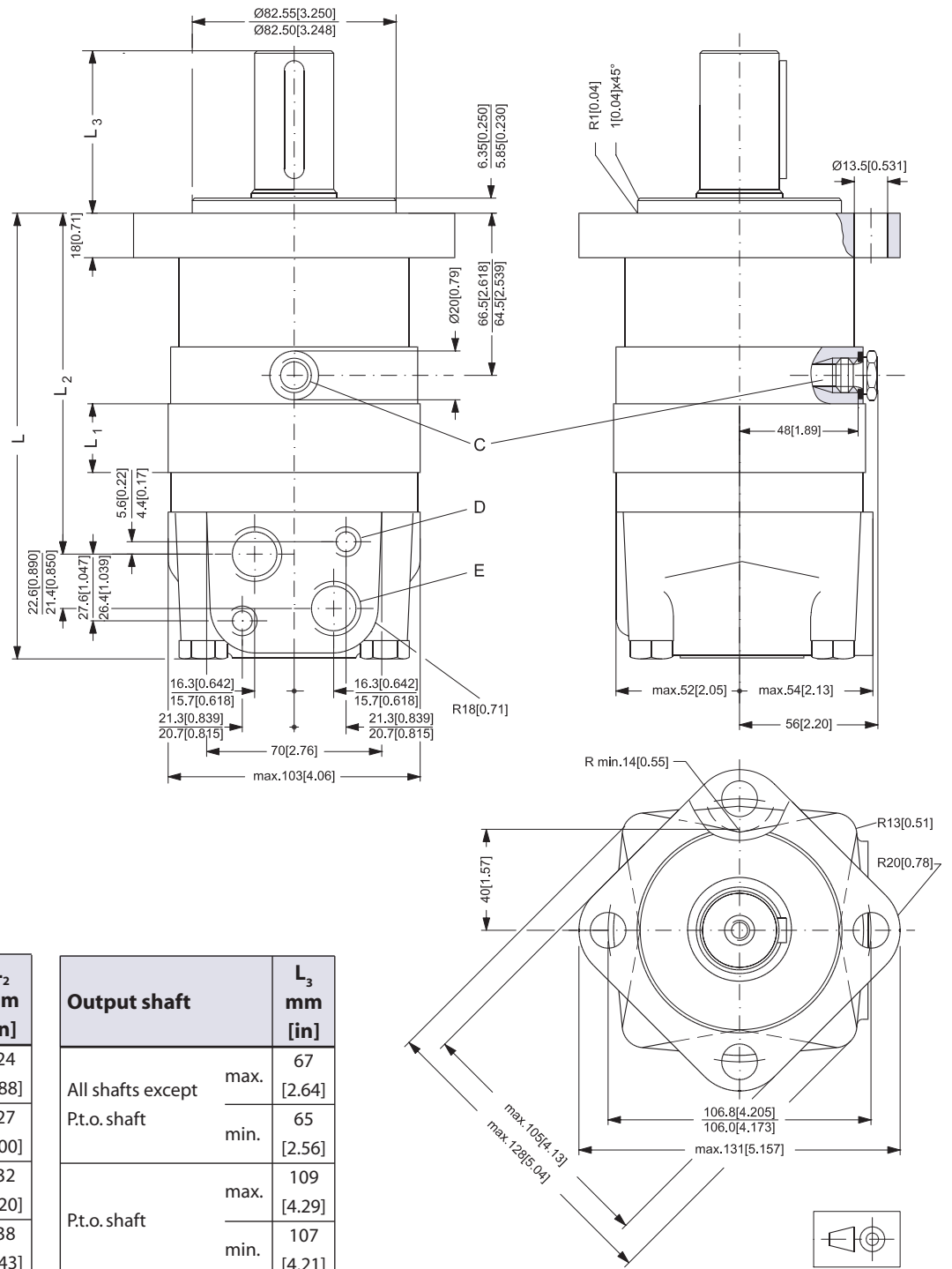
Add the four digit prefix “151F” to the four digit numbers from the chart for complete code number.

Example:

151F0504 for an OMS 200 with standard flange, cyl. 32 mm shaft and port size G 1/2.

Note: Orders will not be accepted without the four digit prefix.

STANDARD FLANGE



Type	L _{max.} mm [in]	L ₁ mm [in]	L ₂ mm [in]
OMS 80	167 [6.57]	14.0 [0.551]	124 [4.88]
OMS 100	170 [6.69]	17.4 [0.685]	127 [5.00]
OMS 125	175 [6.89]	21.8 [0.858]	132 [5.20]
OMS 160	181 [7.13]	27.8 [1.094]	138 [5.43]
OMS 200	188 [7.40]	34.8 [1.370]	145 [5.71]
OMS 250	196 [7.72]	43.5 [1.713]	153 [6.02]
OMS 315	208 [8.19]	54.8 [2.157]	165 [6.50]
OMS 400	221 [8.70]	68.4 [2.693]	178 [7.01]

Output shaft	L ₃ mm [in]
All shafts except P.t.o. shaft	max. 67 [2.64]
	min. 65 [2.56]
P.t.o. shaft	max. 109 [4.29]
	min. 107 [4.21]

C: Drain connection
 G 1/4; 12 mm [0.47 in] deep
 D: M10; 13 mm [0.51 in] deep
 E: G 1/2; 15 mm [0.59 in] deep

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