

CODE NUMBERS

151-0712

CODE NUMBERS	DISPLACEMENT [cm ³]									Technical data – Page	Dimensions – Page
	50	80	100	125	160	200	250	315	375		
151-	0410	0411	0412	0413	0414	0415	0416	0417	0418	38	55
151-	0710	0711	0712	0713	0714	0715	0716	0717	0718	38	56
151-	1231	1232	1233	1238	1234	1235	1236	1237	1243	38	57
151-	6190	6191	6192	6193	6194	6195	6196	6197	6198	38	58
151-	0400	0401	0402	0403	0404	0405	0406	0407	0408	38	55
151-	0700	0701	0702	0703	0704	0705	0706	0707	0708	38	56
151-	7240	7241	7242	7243	7244	7245	7246	7247	7248	38	59
151-	0420	0421	0422	0423	0424	0425	0426	0427	0428	39	55
151-	0720	0721	0722	0723	0724	0725	0726	0727	0728	39	56
151-	7250	7251	7252	7253	7254	7255	7256	7257	7258	39	59
151-	0248	0242	0243	0208	0244	0245	0247	0246	6294	40	57
151-	0265	0266	0267	6295	0268	0269	0271	0270	6296	39	57
151-	6010	6011	6012	6013	6014	6015	6016	6017	6018	38	60
151-	6000	6001	6002	6003	6004	6005	6006	6007	6008	40	60
151-	6110	6111	6112	6113	6114	6115	6116	6117	6118	40	61
151-	6210	6211	6212	6213	6214	6215	6216	6217	6218	38	62
151-	7260	7261	7262	7263	7264	7265	7266	7267	7269	38	63
151-	6300	6301	6302	6303	6304	6305	6306	6307	6308	40	64
151-	6430	6431	6432	6433	6434	6435	6436	6437	6438	40	650
	45	45	46	46	47	47	48	48	49		

Ordering

Add the four digit prefix "151-" to the four digit numbers from the chart for complete code number.

Example:

151-6004 for an OMR 160 with A4 flange, cyl. 32 mm shaft, port size G 1/2 and side port version.

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

TECHNICAL DATA FOR OMR WITH 25 MM AND 1 IN CYLINDRICAL SHAFT

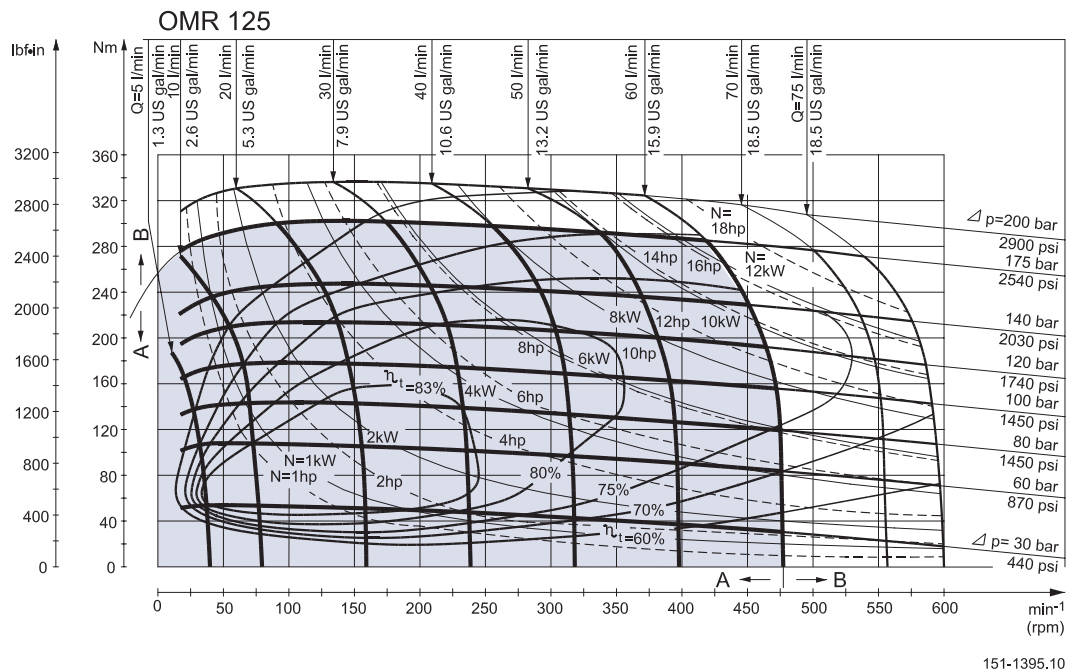
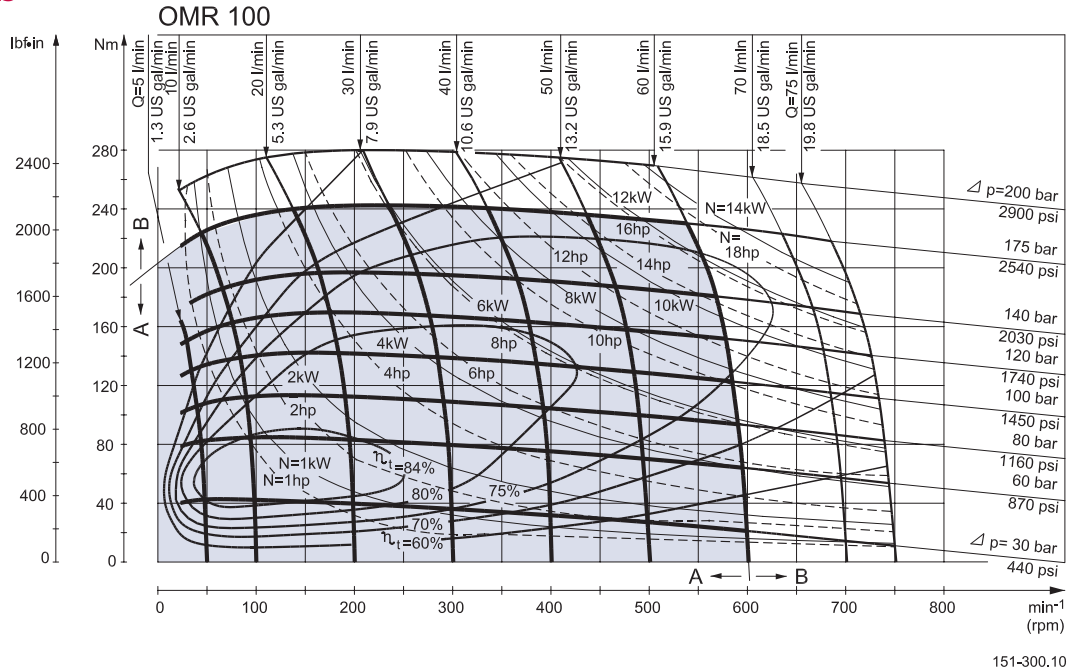
Type		OMR	OMR	OMR	OMR	OMR	OMR	OMR	OMR	OMR	
Motor size		50	80	100	125	160	200	250	315	375	
Geometric displacement	cm ³ (in ³)	51.6 (3.16)	80.3 (4.91)	99.8 (6.11)	125.7 (7.69)	159.6 (9.77)	199.8 (12.23)	249.3 (15.26)	315.7 (19.32)	372.6 (22.80)	
Max. speed	min ⁻¹ (rpm)	cont.	775	750	600	475	375	300	240	190	160
		int. ¹⁾	970	940	750	600	470	375	300	240	200
Max. torque	Nm (lbf-in)	cont.	100 (890)	195 (1730)	240 (2120)	300 (2660)	300 (2660)	300 (2660)	300 (2660)	300 (2660)	300 (2660)
		int. ¹⁾	130 (1150)	220 (1957)	280 (2480)	340 (3010)	390 (3450)	390 (3450)	380 (3360)	420 (3720)	430 (3810)
		peak ²⁾	170 (1510)	270 (2390)	320 (2830)	370 (3280)	460 (4070)	560 (4960)	600 (5310)	610 (5400)	600 (5310)
Max. output	kW (hp)	cont.	7.0 (9.4)	12.5 (16.8)	13.0 (17.4)	12.5 (16.8)	10.0 (13.4)	8.0 (10.7)	6.0 (8.1)	5.0 (6.7)	4.0 (5.4)
		int. ¹⁾	8.5 (11.4)	15.0 (20.1)	15.0 (20.1)	14.5 (19.4)	12.5 (16.8)	10.0 (13.4)	8.0 (10.7)	6.5 (8.7)	6.0 (8.1)
Max. pressure drop	bar (psi)	cont.	140 (2030)	175 (2540)	175 (2540)	175 (2540)	130 (1890)	110 (1600)	80 (1160)	70 (1020)	55 (800)
		int. ¹⁾	175 (2540)	200 (2900)	200 (2900)	200 (2900)	175 (2540)	140 (2030)	110 (1600)	100 (1450)	85 (1230)
		peak ²⁾	225 (3260)	225 (3260)	225 (3260)	225 (3260)	225 (3260)	225 (3260)	200 (2900)	150 (2180)	130 (1890)
Max. oil flow	l/min (US gal/min)	cont.	40 (10.6)	60 (15.9)	60 (15.9)	60 (15.9)	60 (15.9)	60 (15.9)	60 (15.9)	60 (15.9)	60 (15.9)
		int. ¹⁾	50 (13.2)	75 (19.8)	75 (19.8)	75 (19.8)	75 (19.8)	75 (19.8)	75 (19.8)	75 (19.8)	75 (19.8)
Max. starting pressure with unloaded shaft	bar (psi)	10 (145)	10 (145)	10 (145)	9 (130)	7 (100)	5 (75)	5 (75)	5 (75)	5 (75)	
Min. starting torque	at max. press. drop cont.	80 (710)	150 (1330)	200 (1770)	250 (2210)	240 (2120)	260 (2300)	240 (2120)	260 (2300)	240 (2120)	
	at max. press. drop int. ¹⁾	100 (890)	170 (1500)	230 (2040)	280 (2480)	320 (2830)	330 (2920)	310 (2740)	350 (3100)	380 (3360)	
Min. speed ³⁾	min ⁻¹ (rpm)	10	10	10	9	7	5	5	5	5	

¹⁾ Intermittent operation: the permissible values may occur for max. 10% of every minute.

²⁾ Peak load: the permissible values may occur for max. 1% of every minute.

³⁾ Operation at lower speeds may be slightly less smooth.

FUNCTION DIAGRAMS



Explanation of function diagram use, basis and conditions can be found on page 7.

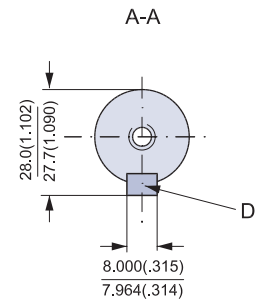
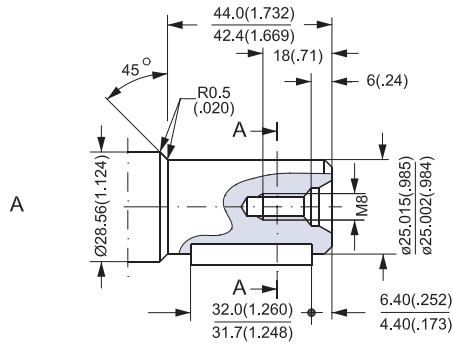
- A: Continuous range
- B: Intermittent range (max. 10% operation every minute)

Max. permissible continuous/intermittent pressure drop for the actual shaft version can be found on page 38-40.

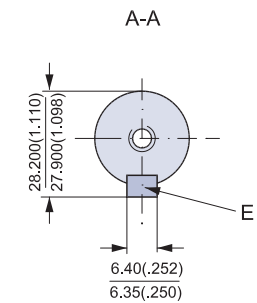
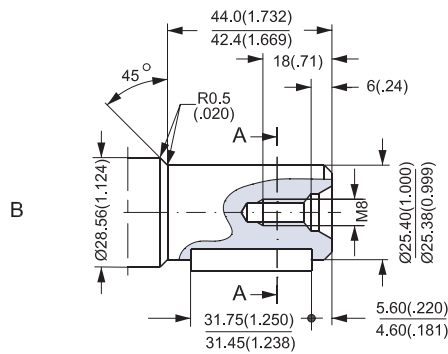
Note: Intermittent pressure drop and oil flow must not occur simultaneously.

SHAFT VERSION

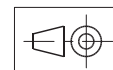
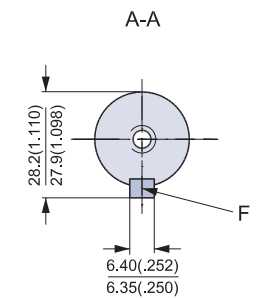
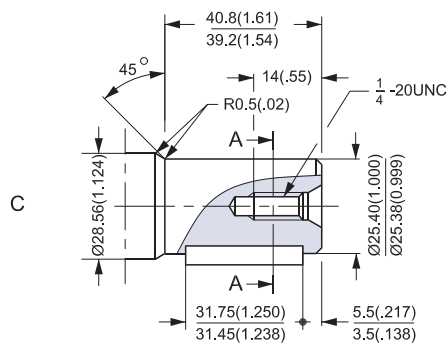
- A: Cylindrical shaft
- 25 mm
- D: Parallel key
- A8 × 7 × 32
- DIN 6885



- B: Cylindrical shaft
- 1 in
- E: Parallel key
- $\frac{1}{4} \times \frac{1}{4} \times 1 \frac{1}{4}$ in
- B.S.46



- US version
- C: Cylindrical shaft
- 1 in
- F: Parallel key
- $\frac{1}{4} \times \frac{1}{4} \times 1 \frac{1}{4}$ in
- B.S.46



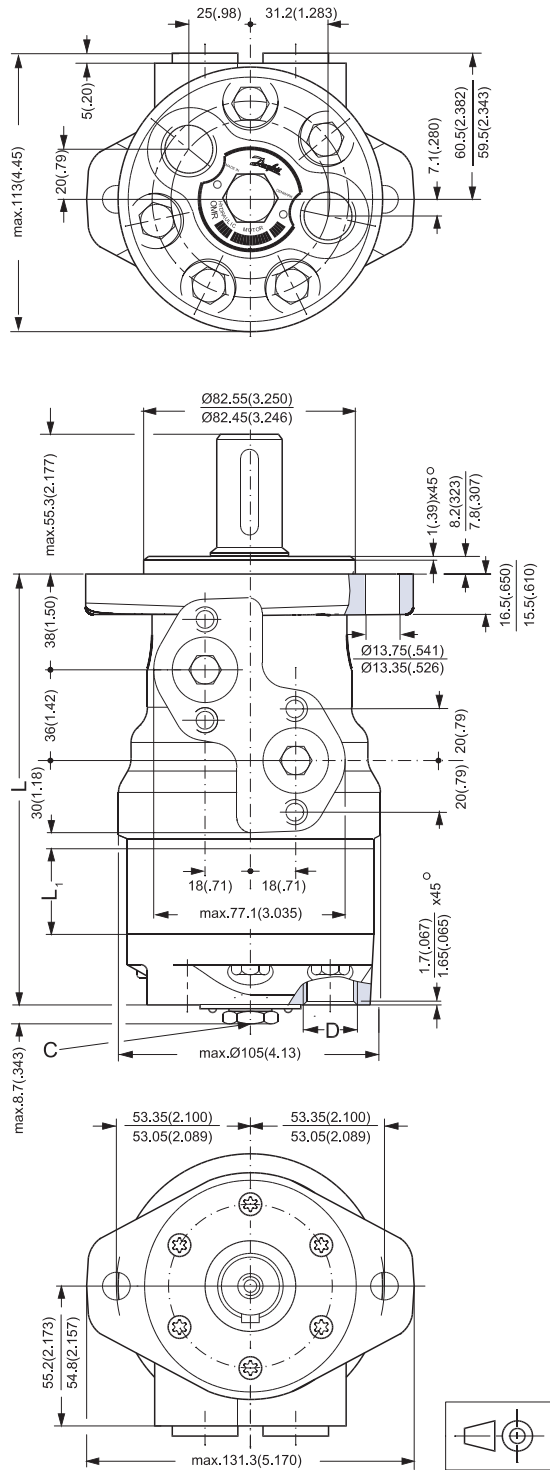
151-1846.10

DIMENSIONS

End port version with 2-hole oval mounting flange (A2-flange).

Type	L mm (in)	L ₁ mm (in)
OMR 50	150.6 (5.92)	9.0 (0.35)
OMR 80	155.6 (6.13)	14.0 (0.55)
OMR 100	159.0 (6.26)	17.4 (0.69)
OMR 125	163.4 (6.43)	21.8 (0.86)
OMR 160	169.4 (6.67)	27.8 (1.09)
OMR 200	176.4 (6.94)	34.8 (1.37)
OMR 250	185.1 (7.29)	43.5 (1.71)
OMR 315	196.4 (7.73)	54.8 (2.16)
OMR 400	206.6 (8.13)	65.0 (2.56)

C: Drain connection
G 1/4; 12 mm (0.47 in) deep
D: G 1/2; 15 mm (0.59 in) deep



151-1752.10