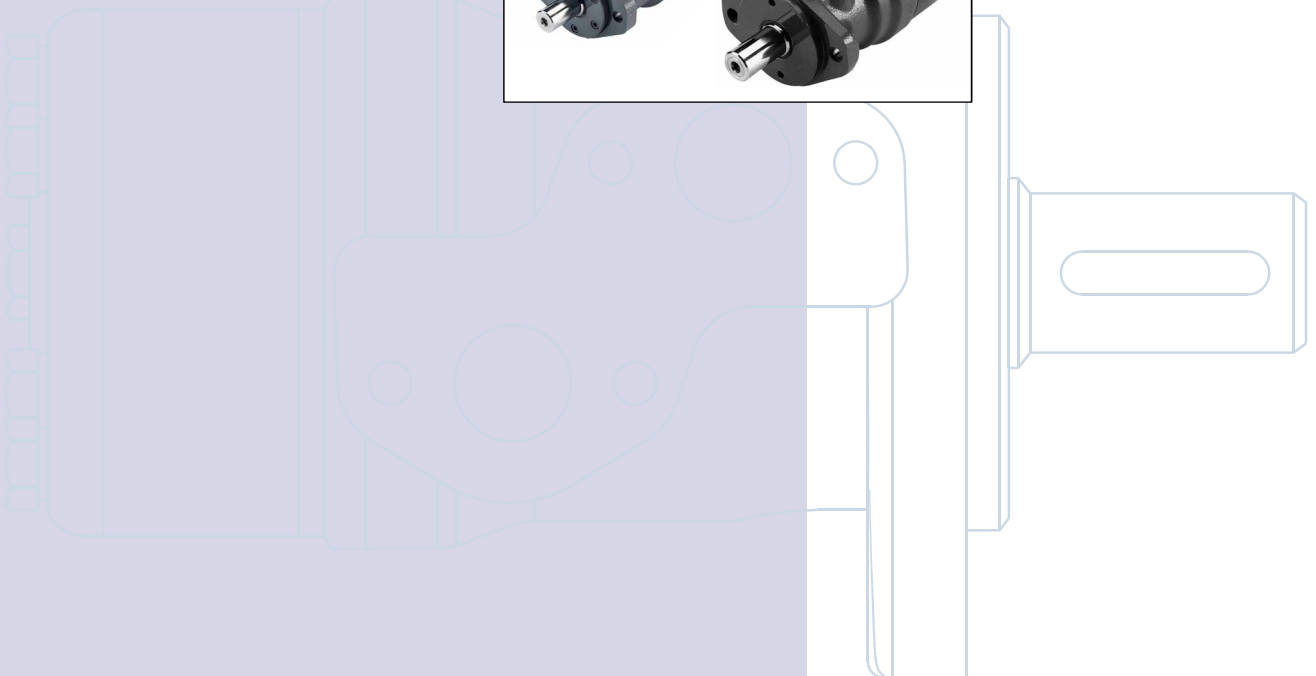


Orbital Motors
Type OMH

Technical
Information



Revision View

Date	Page	Changed	Revision
Mar 2006		Small updates	B
Jun 2007	all	Major revision with new lit-number (minus OMEW, will be prepared separately)	CA
Mar 2010	96	Japan location	CC
Sep 2010	96	New back cover	CD
Sep 2011	48	Typo	CE
Nov 2012	5	Planetary Gears deleted	CF

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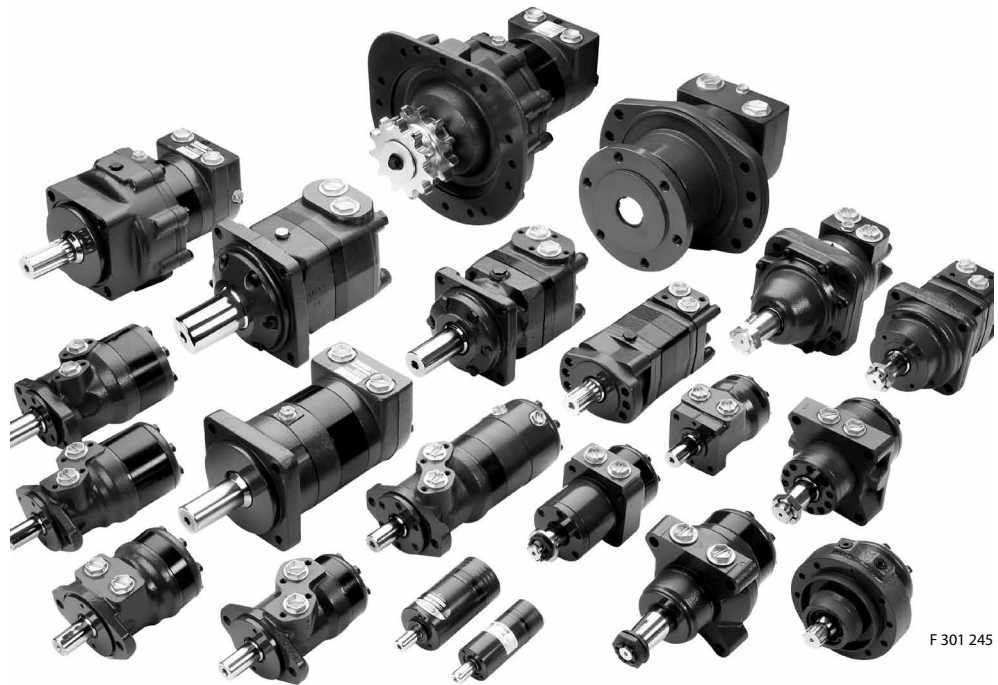
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Front cover illustrations: F301 213, F301 214, F301 215, F301 228, F301 229, F301 230 Drawing: 151-1837

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F 301 245

A Wide Range of Hydraulic Motors

Sauer-Danfoss is a world leader within production of low speed hydraulic motors with high torque. We can offer more than 3000 different hydraulic 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

OMP, OMR and OMH Technical Information A Wide Range of Hydraulics Motors

The programme is characterised by technical features appealing to a large number of applications and a part of the programme is characterised by motors that can be adapted to a given application. Adaptions comprise the following variants among others:

- Motors with corrosion resistant parts
- Wheel motors with recessed mounting flange
- OMP, OMR- motors with needle bearing
- OMR motor in low leakage version
- OMR motors in a super low leakage version
- Short motors without bearings
- Ultra short motors
- Motors with integrated positive holding brake
- Motors with integrated negative holding brake
- Motors with integrated flushing valve
- Motors with speed sensor
- Motors with tacho connection
- All motors are available with black finish paint

The Sauer–Danfoss LSHT motors are used in the following application areas:

- Construction equipment
- Agricultural equipment
- Material handling & Lifting equipment
- Forestry equipment
- Lawn and turf equipment
- Special purpose
- Machine tools and stationary equipment
- Marine equipment

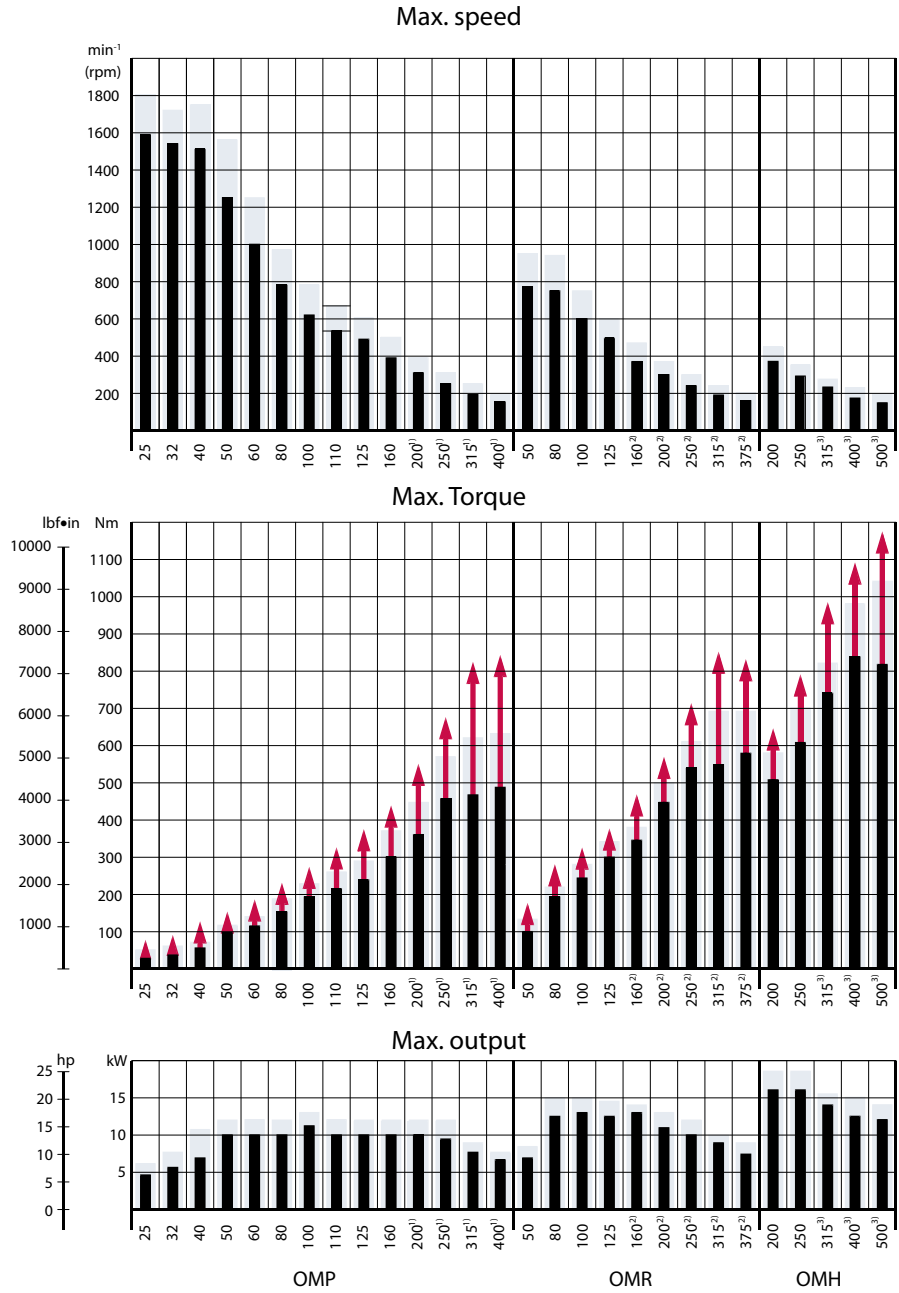
Survey of Literature with Technical Data on Sauer-Danfoss Hydraulic Motors

Detailed data on all Sauer-Danfoss motors can be found in our motor catalogue, which is divided into 8 individual subcatalogues:

- General information on Sauer-Danfoss hydraulic motors: function, use, selection of hydraulic motor, hydraulic systems, etc.
- Technical data on small motors: OML and OMM
- Technical data on medium sized motors: OMP, OMR and OMH
- Technical data on medium sized motors: DH and DS
- Technical data on medium sized motors: OMEW
- Technical data on large motors: OMS, OMT and OMV
- Technical data on large motors: TMK
- Technical data on large motors: TMT
- Technical data on large motors: TMVW

A general survey brochure on Sauer-Danfoss hydraulic motors gives a quick motor reference based on power, torque, speed and capabilities.

Speed, Torque and Output



Peak value ↑ Intermittent values █ Continuous values █

151-1418.11

- 1) 1 1/4 in shaft
- 2) 1 1/4 in or 1 1/4 in tapered shaft
- 3) 1 1/4 in splined shaft

**Speed, Torque and
Output**

The bar diagrams above are useful for a quick selection of relevant motor size for the application. The final motor size can be determined by using the function diagram for each motor size.

- OMP and OMPW can be found on pages 20 - 26
- OMR and OMRW can be found on pages 51 - 55
- OMH can be found on pages 84 - 86

The function diagrams are based on actual tests on a representative number of motors from our production. The diagrams apply to a return pressure between 5 and 10 bar [75 and 150 psi] when using mineral based hydraulic oil with a viscosity of 35 mm²/s [165 SUS] and a temperature of 50°C [120°F]. For further explanation concerning how to read and use the function diagrams, please consult the paragraph "Selection of motor size" in the technical information "General Orbital Motors" 520L0232 Rev. B.

Versions

Mounting flange	Spigot diameter (front /rear end)	Bolt circle diameter (BC)	Shaft	Port size	European version	US version	Side port version	End port version	Flange port version	Standard shaft seal	High pressure shaft seal	Drain connection	Check valve	Main type designation	
4 hole oval flange (A4-flange)	Ø 82.5 mm [3.25 in]	Ø 106.4 mm [4.20 in]	Cyl. 32 mm	G ½	●		●			●		Yes	Yes	OMH	
			Cyl. 35 mm	G ½	●		●			●		Yes	Yes	OMH	
			Cyl. 1 ¼ in	⁷ / ₈ -14 UNF		●	●				●		Yes	Yes	OMH
			Splined 1in SAE 6B	⁷ / ₈ -14 UNF		●	●				●		Yes	Yes	OMH
			Splined 1 ¼ in	G ½	●		●				●		Yes	Yes	OMH
			Splined 1 ¼ in	⁷ / ₈ -14 UNF		●	●				●		Yes	Yes	OMH
			Tapered 35 mm	G ½	●		●				●		Yes	Yes	OMH
Functions diagram - see page: →															

→

→

Code Numbers

Code numbers	Displacement [cm ³]					Technical data - Page	Dimensions - Page
	200	250	315	400	500		
151H	1002	1003	1004	1005	1006	79	91
151H	1012	1013	1014	1015	1016	80	91
151H	1042	1043	1044	1045	1046	79	92
151H	1080	1082	1083	1084	1081	78	92
151H	1022	1023	1024	1025	1026	80	91
151H	1052	1053	1054	1055	1056	80	92
151H	-	-	1034	1035	1036	80	91
→	84	84	85	85	86		

Ordering

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

Example:

151H1044 for an OMH 315 with A4 flange, cyl. 1 ¼ in shaft, port size 7/8 - 14 UNF

Orders will not be accepted without the four digit prefix.

Technical data for OMH with 1 in SAE 6 B splined shaft

Type		OMH	OMH	OMH	OMH	OMH	
Motor size		200	250	315	400	500	
Geometric displacement	cm ³ [inch]	201.3 [12.32]	252.0 [15.42]	314.9 [19.27]	396.8 [24.28]	470.6 [28.80]	
Max. speed	min ⁻¹ [rpm]	cont.	370	295	235	185	155
		int. ¹⁾	445	350	285	225	190
Max. torque	N·m [lbf·in]	cont.	340 [3000]	340 [3000]	340 [3000]	340 [3000]	340 [3000]
		int. ¹⁾	510 [4500]	510 [4500]	540 [4800]	540 [4800]	520 [4600]
		peak ²⁾	610 [5400]	610 [5400]	610 [5400]	610 [5400]	610 [5400]
Max. output	kW [hp]	cont.	11.2 [15.0]	7.5 [10.0]	5.2 [7.0]	4.8 [6.5]	3.7 [5.0]
		int. ¹⁾	17.2 [23.0]	11.9 [16.0]	9.7 [13.0]	8.2 [11.0]	6.0 [8.0]
Max. pressure drop	bar [psi]	cont.	115 [1650]	90 [1300]	75 [1100]	60 [900]	50 [725]
		int. ¹⁾	170 [2500]	145 [2100]	120 [1750]	95 [1400]	75 [1100]
		peak ²⁾	215 [3120]	175 [2540]	145 [2100]	110 [1600]	90 [1300]
Max. oil flow	l/min [US gal/min]	cont.	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]
		int. ¹⁾	90 [23.8]	90 [23.8]	90 [23.8]	90 [23.8]	90 [23.8]
Max. starting pressure with unloaded shaft	bar [psi]	7 [100]	7 [100]	7 [100]	7 [100]	7 [100]	
Min starting torque	at max. press drop cont. N·m [lbf·in]	255 [2250]	270 [2400]	280 [2500]	290 [2550]	300 [2650]	
	at max. press.drop int. ¹⁾ N·m [lbf·in]	390 [3450]	435 [3850]	450 [4000]	450 [4000]	450 [4000]	

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.

Technical data for OMH with 32 mm and 1 1/4 in cylindrical shaft

Type		OMH	OMH	OMH	OMH	OMH	
Motor size		200	250	315	400	500	
Geometric displacement	cm ³ [inch]	201.3 [12.32]	252.0 [15.42]	314.9 [19.27]	396.8 [24.28]	470.6 [28.80]	
Max. speed	min ⁻¹ [rpm]	cont.	370	295	235	185	155
		int. ¹⁾	445	350	285	225	190
Max. torque	N·m [lbf·in]	cont.	510 [4500]	610 [5400]	590 [5220]	590 [5220]	580 [5130]
		int. ¹⁾	580 [5130]	700 [6200]	670 [5930]	700 [6200]	680 [6020]
		peak ²⁾	640 [5660]	790 [6990]	840 [7440]	840 [7440]	840 [7440]
Max. output	kW [hp]	cont.	16.0 [21.5]	16.0 [21.5]	12.5 [16.8]	10.0 [13.4]	8.5 [11.4]
		int. ¹⁾	18.5 [24.8]	18.5 [24.8]	14.0 [18.8]	12.0 [16.1]	10.0 [13.4]
Max. pressure drop	bar [psi]	cont.	175 [2540]	175 [2540]	135 [1960]	105 [1520]	85 [1230]
		int. ¹⁾	200 [2900]	200 [2900]	155 [2250]	125 [1810]	100 [1450]
		peak ²⁾	225 [3260]	225 [3260]	190 [2760]	155 [2250]	130 [1890]
Max. oil flow	l/min [US gal/min]	cont.	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]
		int. ¹⁾	90 [23.8]	90 [23.8]	90 [23.8]	90 [23.8]	90 [23.8]
Max. starting pressure with unloaded shaft	bar [psi]	7 [100]	7 [100]	7 [100]	7 [100]	7 [100]	
Min starting torque	at max. press drop cont. N·m [lbf·in]	390 [3450]	520 [4600]	510 [4510]	490 [4340]	490 [4340]	
	at max. press.drop int. ¹⁾ N·m [lbf·in]	450 [3980]	590 [5220]	590 [5220]	600 [5310]	600 [5310]	

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.

Technical data for OMH with 35 mm cylindrical, 1 1/4 in splined and 35 mm tapered shaft

Type		OMH	OMH	OMH	OMH	OMH
Motor size		200	250	315	400	500
Geometric displacement	cm ³ [inch]	201.3 [12.32]	252.0 [15.42]	314.9 [19.27]	396.8 [24.28]	470.6 [28.80]
Max. speed	min ⁻¹ [rpm]	cont.	370	295	235	185
		int. ¹⁾	445	350	285	225
Max. torque	N·m [lbf·in]	cont.	510 [4500]	610 [5400]	740 [6550]	840 [7440]
		int. ¹⁾	580 [5130]	700 [6200]	820 [7260]	980 [8670]
		peak ²⁾	640 [5660]	790 [6990]	980 [8670]	1090 [9650]
Max. output	kW [hp]	cont.	16.0 [21.5]	16.0 [21.5]	14.0 [18.8]	12.5 [16.8]
		int. ¹⁾	18.5 [24.8]	18.5 [24.8]	15.5 [20.8]	15.0 [20.1]
Max. pressure drop	bar [psi]	cont.	175 [2540]	175 [2540]	175 [2540]	155 [2250]
		int. ¹⁾	200 [2900]	200 [2900]	200 [2900]	190 [2760]
		peak ²⁾	225 [3260]	225 [3260]	225 [3260]	210 [3050]
Max. oil flow	l/min [US gal/min]	cont.	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]
		int. ¹⁾	90 [23.8]	90 [23.8]	90 [23.8]	90 [23.8]
Max. starting pressure with unloaded shaft	bar [psi]	7 [100]	7 [100]	7 [100]	7 [100]	7 [100]
Min starting torque	at max. press drop cont. N·m [lbf·in]	390 [3450]	520 [4600]	660 [5840]	720 [6370]	720 [6370]
	at max. press.drop int. ¹⁾ N·m [lbf·in]	450 [3980]	590 [5220]	730 [6460]	880 [7790]	880 [7790]

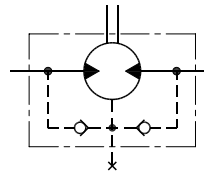
Type		Max. inlet pressure	Max.return pressure with drain line
OMH 200 - 500	bar [psi]	200 [2900]	175 [2540]
	bar [psi]	225 [3260]	200 [2900]
	bar [psi]	250 [3630]	225 [3260]

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.

Max. Permissible Shaft Seal Pressure

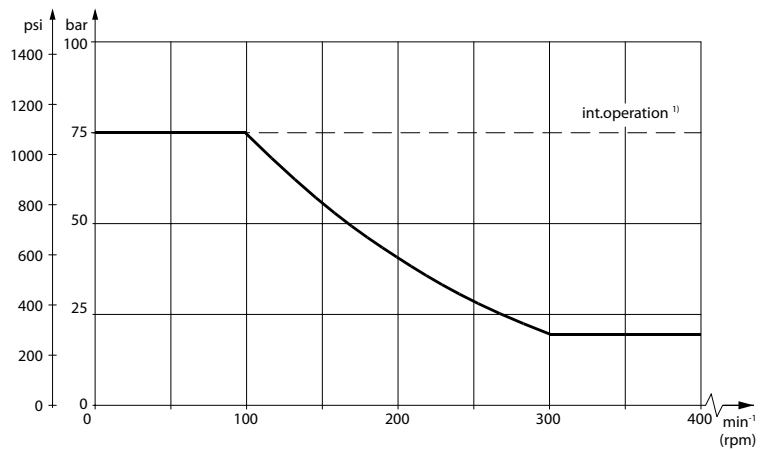
OMH with standard shaft seal, check valves and without use of drain connection:
 The pressure on the shaft seal never exceeds the pressure in the return line



OMH with standard shaft seal, check valves and with drain connection:
 The shaft seal pressure equals the pressure on the drain line.

151-320.10

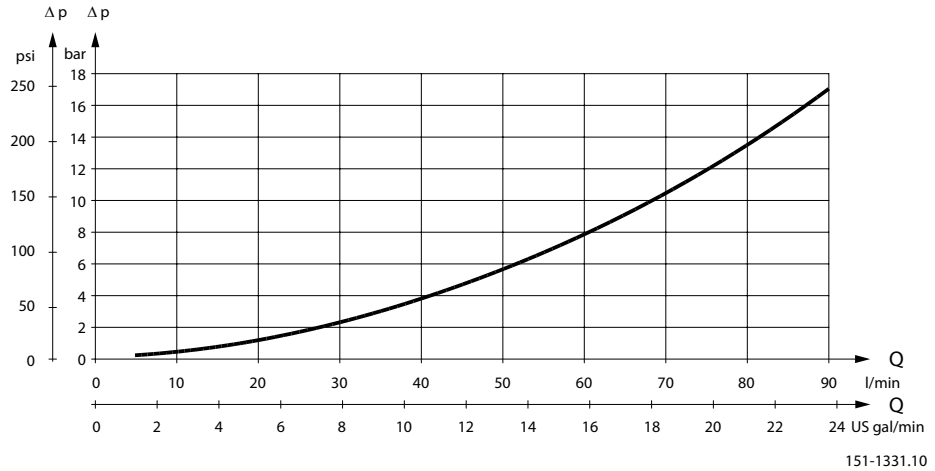
Max. return pressure without drain line or max. pressure in the drain line



151-1565.10

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

Pressure Drop in Motor



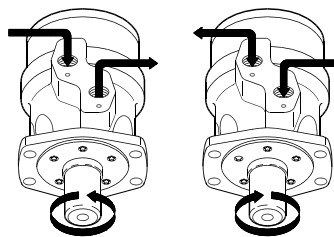
The curve applies to an unloaded motor shaft and an oil viscosity of 35 mm²/s [165 SUS]

Oil Flow in Drain Line

The table shows the max. oil flow in the drain line at a return pressure less than 5-10 bar [75-150 psi].

Pressure drop bar [psi]	Viscosity mm ² /s [SUS]	Oil flow in drain line l/min [US gal/min]
100 [1450]	20 [100]	2.5 [0.66]
	35 [165]	1.8 [0.78]
140 [2030]	20 [100]	3.5 [0.93]
	35 [165]	2.8 [0.74]

**Direction of Shaft
 Rotation**



151-2107.10

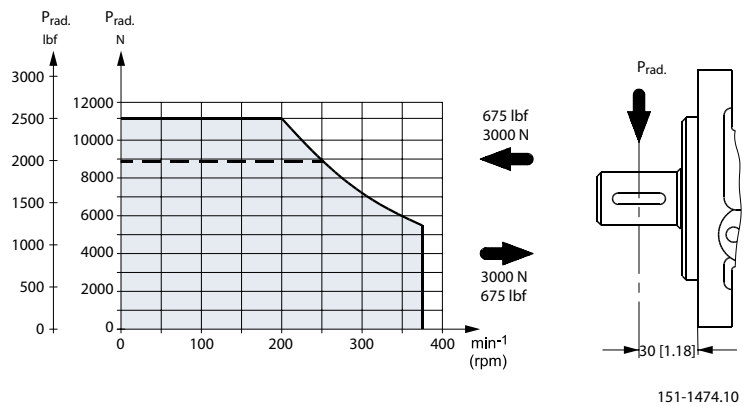
**Permissible Shaft Loads
 for OMH**

The permissible shaft load (P_{rad}) is calculated from the speed (n) and the distance (l) between the point of load application and the mounting flange.

$$P_{rad} = \frac{1100}{n} \cdot \frac{250000}{103.5 + l} \quad \text{N*}; l \text{ in mm}$$

$$P_{rad} = \frac{1100}{n} \cdot \frac{2215}{4.07 + l} \quad \text{lbf*}; l \text{ in inch}$$

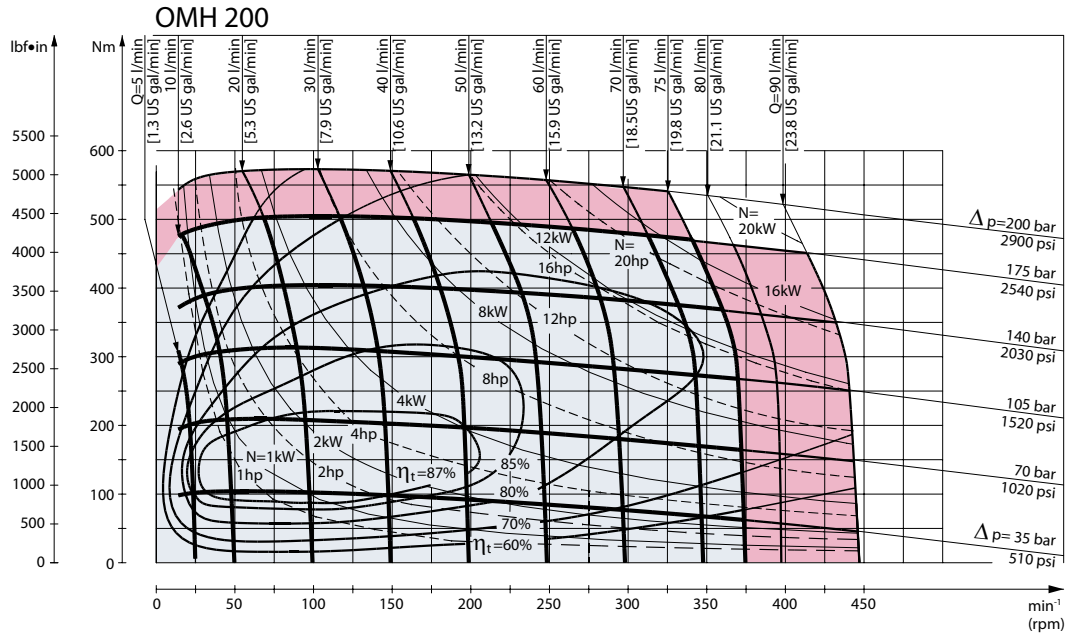
* $n \geq 200 \text{ min}^{-1}$ (rpm); $l \leq 60 \text{ mm}$ [2.36 in]
 $n < 200 \text{ min}^{-1}$ (rpm); $\Rightarrow P_{Rmax} = 11000 \text{ N}$ [2475 lbf]



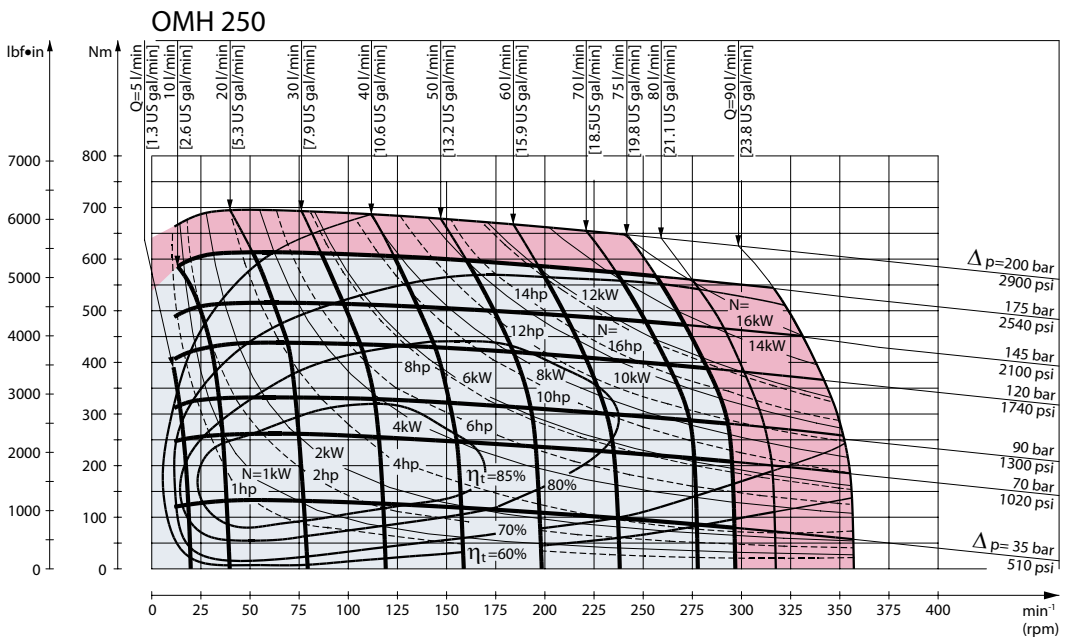
----- 1 in SAE 6B splined shaft

The drawing shows the permissible radial load when $l = 30 \text{ mm}$ [1.18 in].

Function Diagrams



151-1486.10



151-1487.10

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

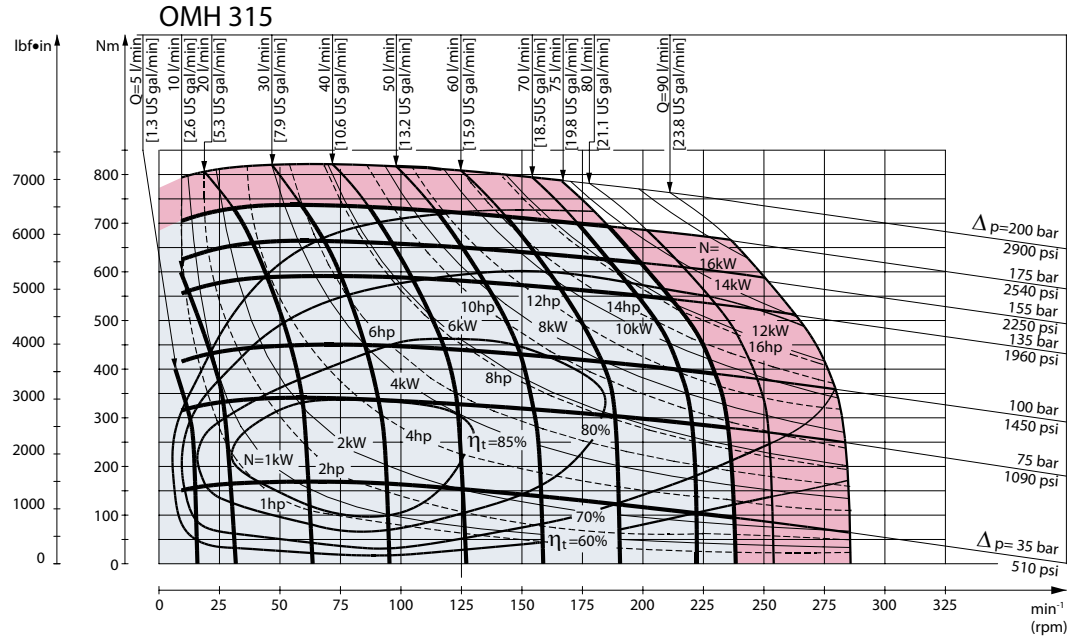
■ Continuous range

■ Intermittent range (max. 10% operation every minute)

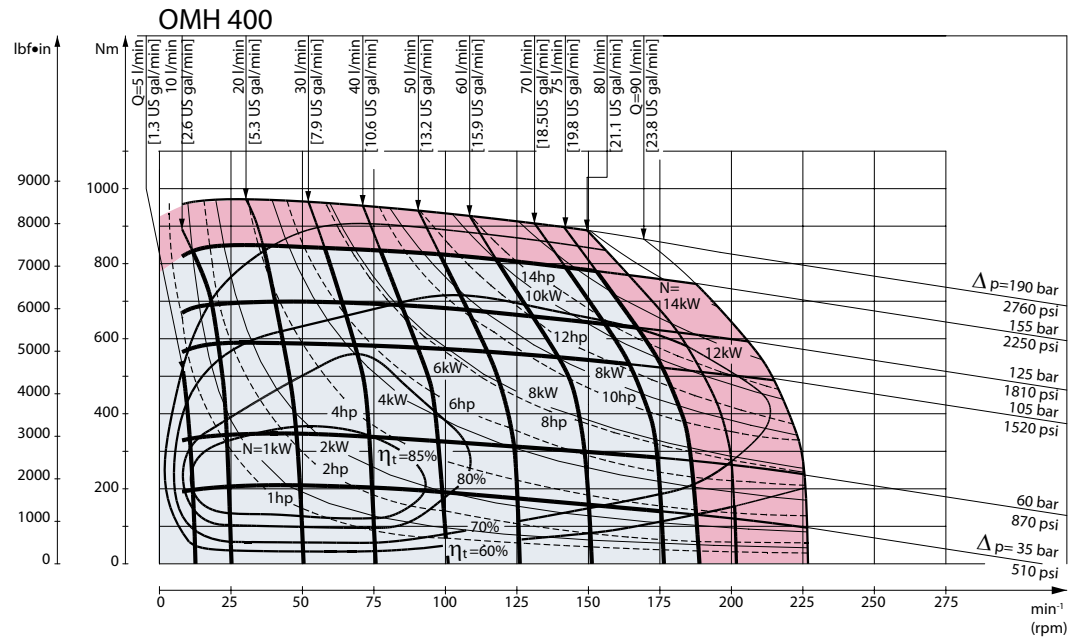
Max. permissible continuous/intermittent pressure drop for the actual shaft version can be found on page 78 - 80.

Intermittent pressure drop and oil flow must not occur simultaneously.

Function Diagrams



151-1488.10



151-1489.10

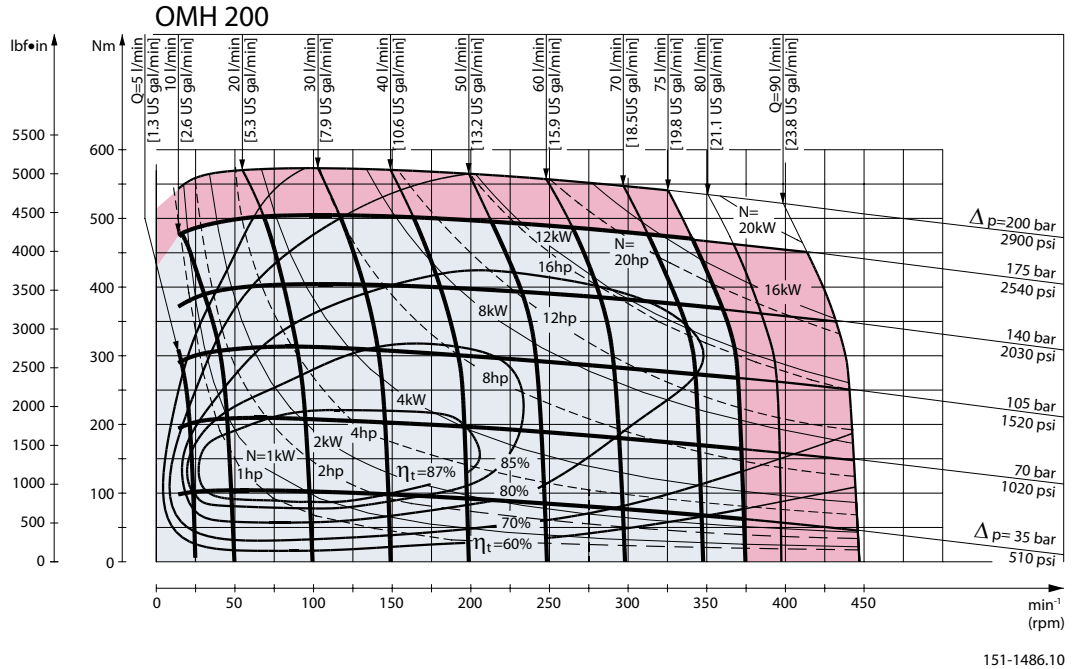
Explanation of function diagram use, basis and conditions can be found on page 7.

■ Continuous range

■ Intermittent range (max. 10% operation every minute) Max. permissible continuous/intermittent pressure drop for the actual shaft version can be found on page 78 - 80.

Intermittent pressure drop and oil flow must not occur simultaneously.

Function Diagrams



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

■ Continuous range

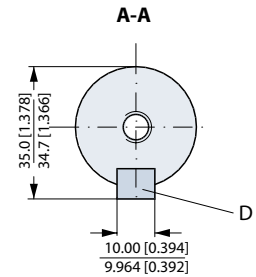
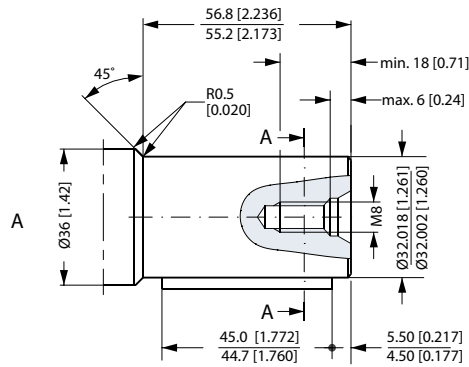
■ Intermittent range (max. 10% operation every minute)

Max. permissible continuous/intermittent pressure drop for the actual shaft version can be found on page 78 - 80.

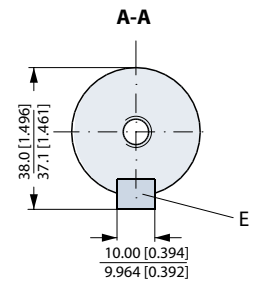
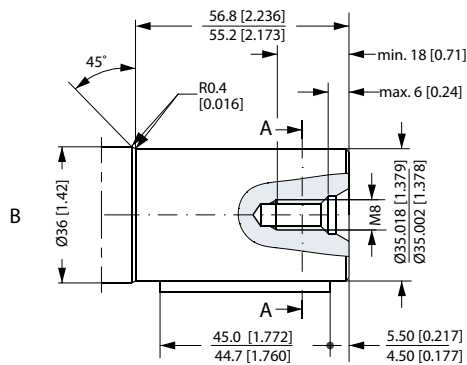
Intermittent pressure drop and oil flow must not occur simultaneously.

Shaft Version

- A: Cylindrical shaft 32 mm
- D: Parallel key
 A10 × 8 × 45
 DIN 6885

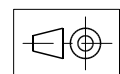
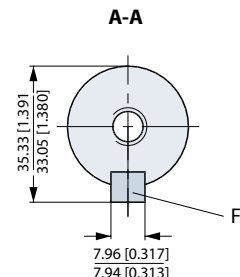
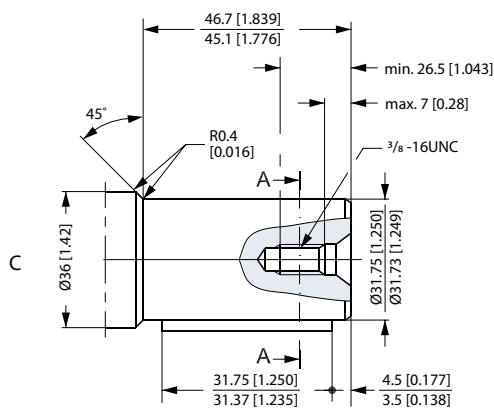


- B: Cylindrical shaft 35 mm
- E: Parallel key
 A10 × 8 × 45
 DIN 6885



US version

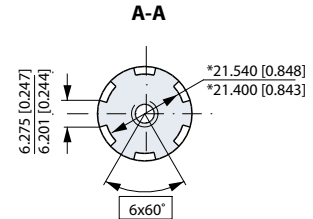
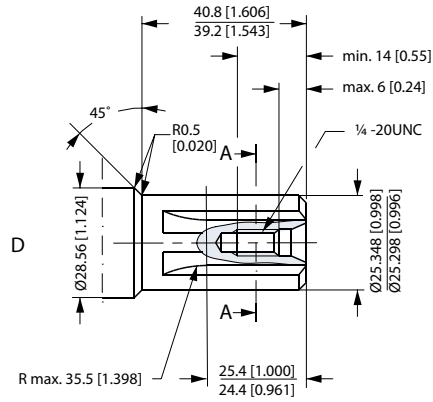
- C: Cylindrical shaft 1 1/4 in
- F: Parallel key
 $\frac{5}{16} \times \frac{5}{16} \times 1\frac{1}{4}$ in
 SAE J 744



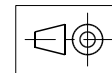
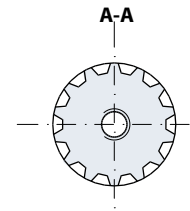
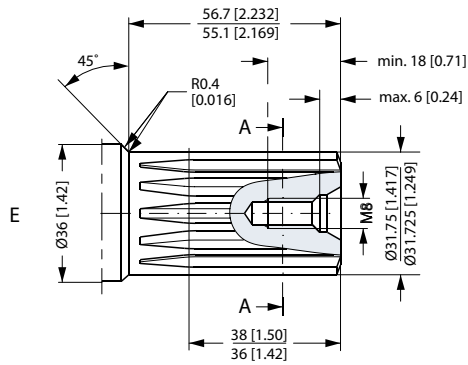
Shaft Version

D: Splined shaft
SAE 6 B (B.S. 2059)
Straight-sided,
bottom fitting, deep.
Fit 2
Nom. size 1 in

*Deviates from
SAE 6 B (B.S. 2059)



E: Involute splined shaft
ANS B92.1 - 1980 standard
Flat root side fit
Pitch 12/24
Teeth 14
Major dia. 1.25 in
Pressure angle 30°

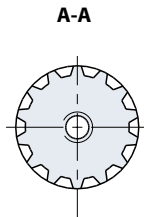
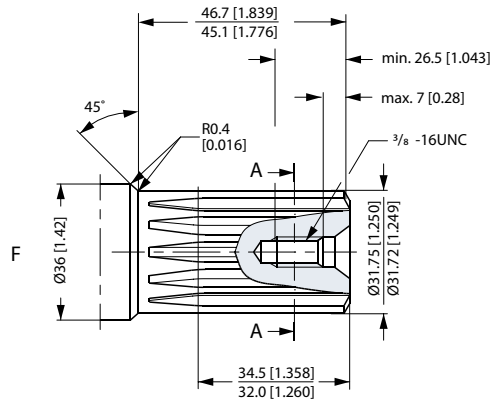


151-1853.11

Shaft Version

US version

- F. Involute splined shaft
- ANS B92.1 - 1970 standard
- Flat root side fit
- Pitch 12/24
- Teeth 14
- Major dia. 1.25 in
- Pressure angle 30°



G: Tapered shaft 35 mm

I: DIN 937

NV 41

Tightening torque:

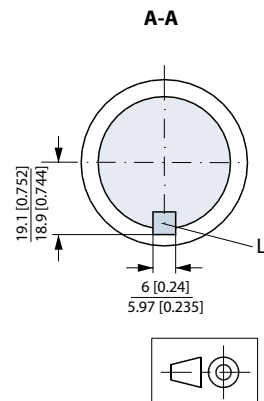
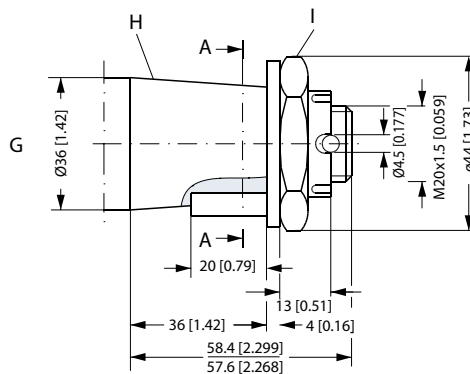
200 ± 10 Nm [1770 ± 85 lbf-in]

H: Taper 1:10

L: Parallel key

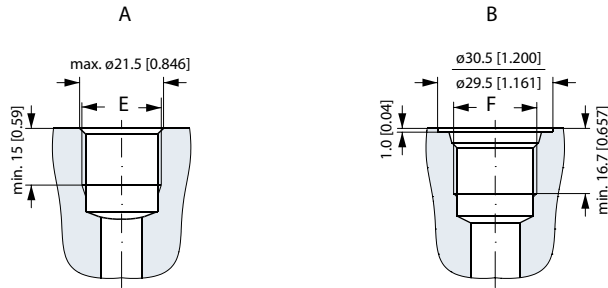
B6 • 6 • 20

DIN 6885

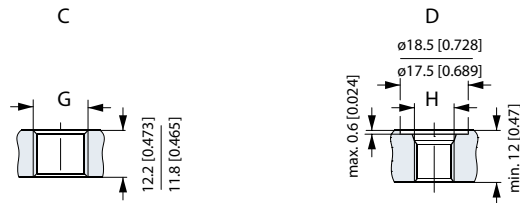


151-1854.11

Port Thread Versions



A: G main ports B: UNF main ports
E: ISO 228/1 - G $\frac{1}{2}$ F: $\frac{7}{8}$ - 14 UNF
O-ring boss port

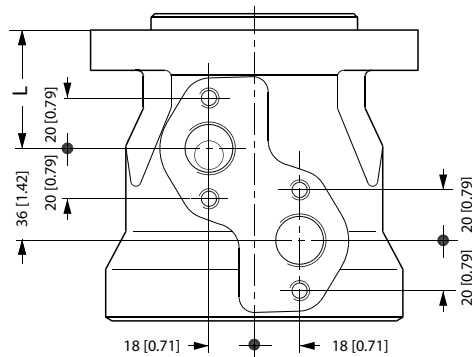


C: G drain port D: UNF drain port
G: ISO 228/1 - G $\frac{1}{4}$ H: $\frac{7}{16}$ - 20 UNF
O-ring boss port

151-1858.10

Manifold Mount

European version



L: see dimensional drawing for given OMH motor on pages 91 - 92

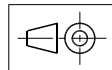
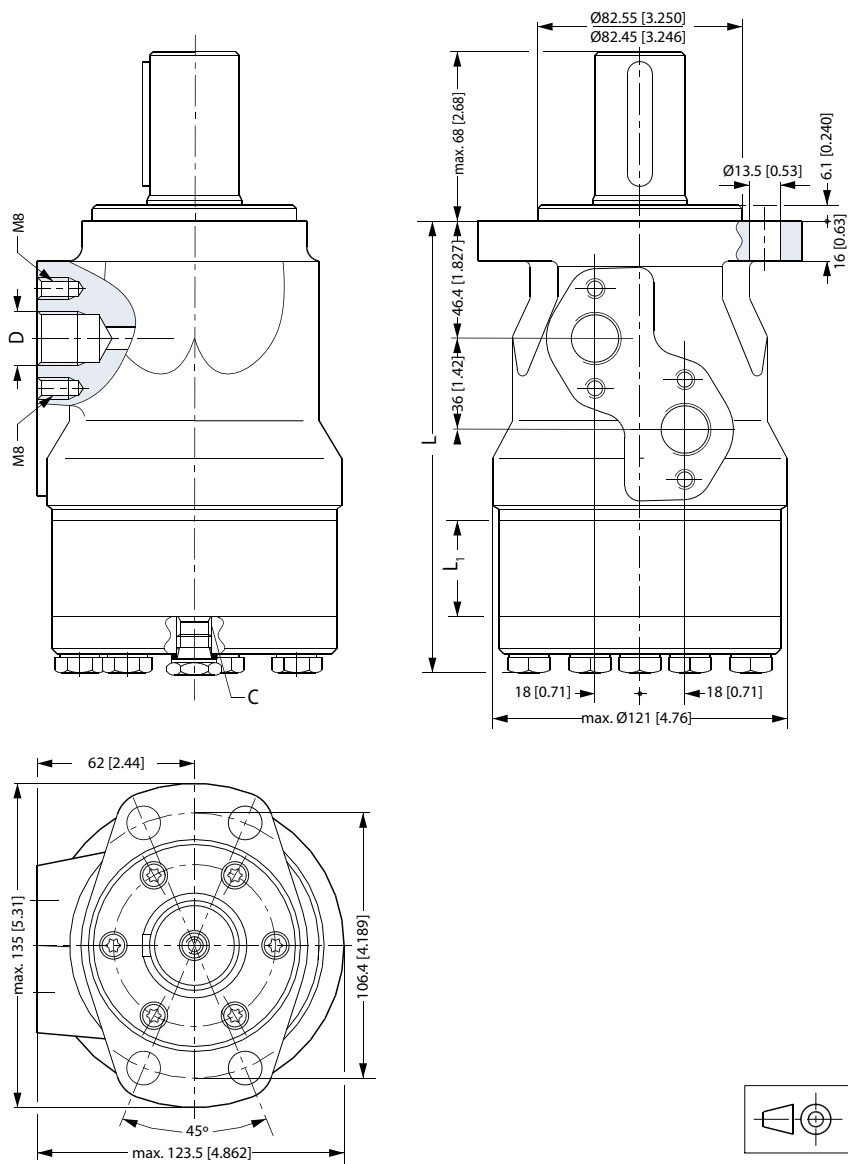
151-2135.10

Dimensions

Side port version with 4 hole oval mounting flange (A4-flange).

Type	Max. L mm [in]	L ₁ mm [in]
OMH 200	171.1 [6.74]	27.8 [1.09]
OMH 250	178.1 [7.01]	34.8 [1.37]
OMH 315	186.8 [7.35]	43.5 [1.71]
OMH 400	198.1 [7.80]	54.8 [2.16]
OMH 500	208.3 [8.20]	65.0 [2.56]

C: Drain connection
 G ¼; 12 mm [0.47 in] deep
 D: G ½; 15 mm [0.59 in] deep



151-1324.11

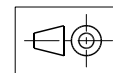
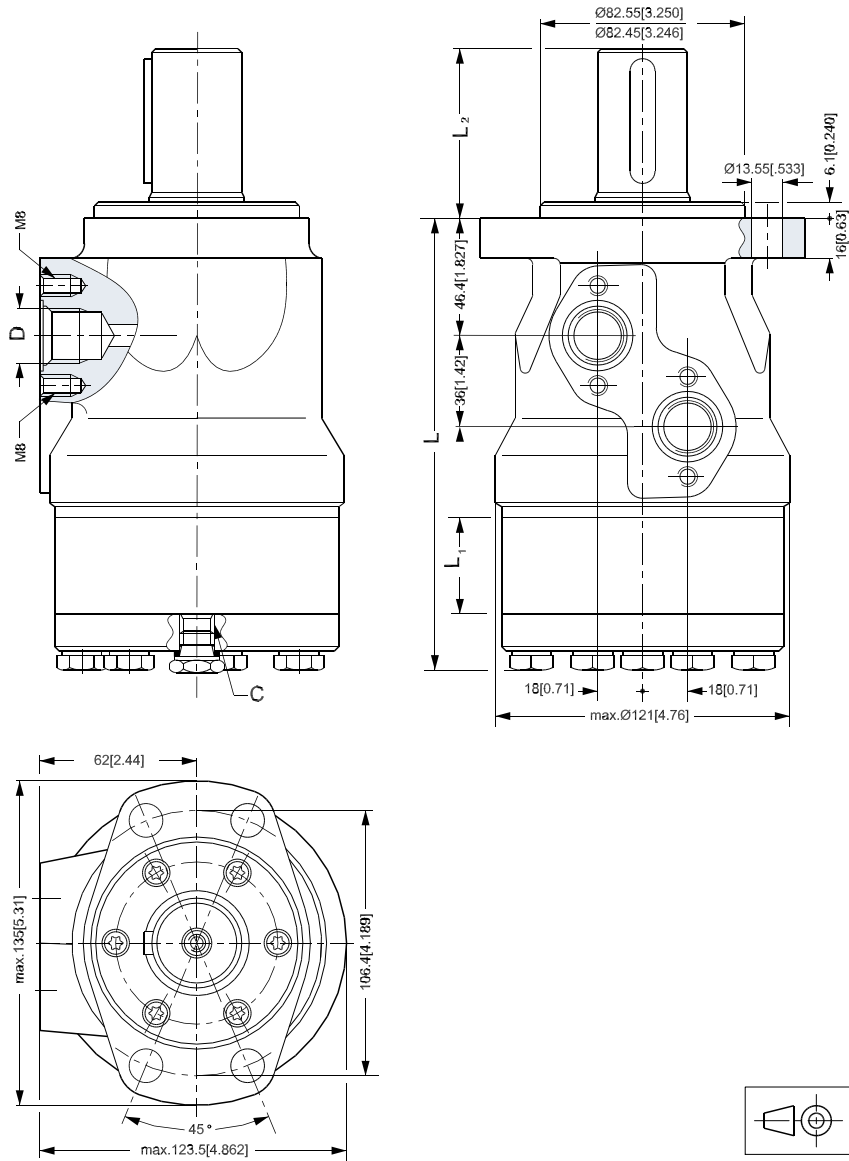
Dimensions

Side port version with 4 hole oval mounting flange (A4 flange).

Output shaft.max.	mm L ₂ [in]
Splined shaft 1 in	50.5 [1.99]
Other shaft versions	58.0 [2.28]

Type	Max. L mm [in]	L ₁ mm [in]
OMH 200	171.1 [6.74]	27.8 [1.09]
OMH 250	178.1 [7.01]	34.8 [1.37]
OMH 315	186.8 [7.35]	43.5 [1.71]
OMH 400	198.1 [7.80]	54.8 [2.16]
OMH 500	208.3 [8.20]	65.0 [2.56]

- C: Drain connection
 7/16 - 20 UNF;
 12 mm [0.47 in] deep
- D: 7/8 - 14 UNF;
 15 mm [0.59 in] deep



151-1324.11.22

Weight of Motors

Code no	Weight	
	kg	[lb]
151-0208	7.2	[15.9]
151-0242	6.9	[15.2]
151-0243	7.0	[15.4]
151-0244	7.5	[16.5]
151-0245	8.0	[17.6]
151-0246	9.0	[19.8]
151-0247	8.5	[18.7]
151-0248	6.7	[14.8]
151-0265	6.7	[14.8]
151-0266	6.9	[15.2]
151-0267	7.0	[15.4]
151-0268	7.5	[16.5]
151-0269	8.0	[17.6]
151-0270	9.0	[19.8]
151-0271	8.5	[18.7]
151-0300	5.6	[12.3]
151-0301	5.7	[12.6]
151-0302	5.9	[13.0]
151-0303	6.0	[13.2]
151-0304	6.2	[13.7]
151-0305	6.4	[14.1]
151-0306	6.6	[14.6]
151-0307	6.9	[15.2]
151-0308	7.4	[16.3]
151-0310	5.6	[12.3]
151-0311	5.7	[12.6]
151-0312	5.9	[13.0]
151-0313	6.0	[13.2]
151-0314	6.2	[13.7]
151-0315	6.4	[14.1]
151-0316	6.6	[14.6]
151-0317	6.9	[15.2]
151-0318	7.4	[16.3]
151-0319	5.6	[12.3]
151-0330	5.6	[12.3]
151-0331	5.7	[12.6]
151-0332	5.9	[13.0]
151-0333	6.0	[13.2]
151-0334	6.2	[13.7]
151-0335	6.4	[14.1]
151-0336	6.6	[14.6]
151-0337	6.9	[15.2]
151-0338	7.4	[16.3]
151-0340	5.5	[12.1]
151-0341	5.5	[12.1]
151-0342	5.6	[12.3]
151-0400	6.7	[14.8]
151-0401	6.9	[15.2]
151-0402	7.0	[15.4]
151-0403	7.2	[15.9]
151-0404	7.5	[16.5]

Code no	Weight	
	kg	[lb]
151-0405	8.0	[17.6]
151-0406	8.5	[18.7]
151-0407	9.0	[19.8]
151-0408	9.5	[20.9]
151-0410	6.7	[14.8]
151-0411	6.9	[15.2]
151-0412	7.0	[15.4]
151-0413	7.2	[15.9]
151-0414	7.5	[16.5]
151-0415	8.0	[17.6]
151-0416	8.5	[18.7]
151-0417	9.0	[19.8]
151-0418	9.5	[20.9]
151-0420	6.7	[14.8]
151-0421	6.9	[15.2]
151-0422	7.0	[15.4]
151-0423	7.2	[15.9]
151-0424	7.5	[16.5]
151-0425	8.0	[17.6]
151-0426	8.5	[18.7]
151-0427	9.0	[19.8]
151-0428	9.5	[20.9]
151-0600	5.6	[12.3]
151-0601	5.7	[12.6]
151-0602	5.9	[13.0]
151-0603	6.0	[13.2]
151-0604	6.2	[13.7]
151-0605	6.4	[14.1]
151-0606	6.6	[14.6]
151-0607	6.9	[15.2]
151-0608	7.4	[16.3]
151-0610	5.6	[12.3]
151-0611	5.7	[12.6]
151-0612	5.9	[13.0]
151-0613	6.0	[13.2]
151-0614	6.2	[13.7]
151-0615	6.4	[14.1]
151-0616	6.6	[14.6]
151-0617	6.9	[15.2]
151-0618	7.4	[16.3]
151-0622	5.9	[13.0]
151-0624	6.2	[13.7]
151-0625	6.4	[14.1]
151-0627	6.9	[15.2]
151-0630	5.6	[12.3]
151-0631	5.7	[12.6]
151-0632	5.9	[13.0]
151-0633	6.0	[13.2]
151-0634	6.2	[13.7]
151-0635	6.4	[14.1]
151-0636	6.6	[14.6]

Code no	Weight	
	kg	[lb]
151-0637	6.9	[15.2]
151-0638	7.4	[16.3]
151-0640	5.5	[12.1]
151-0641	5.5	[12.1]
151-0642	5.6	[12.3]
151-0646	5.9	[13.0]
151-0700	6.7	[14.8]
151-0701	6.9	[15.2]
151-0702	7.0	[15.4]
151-0703	7.2	[15.9]
151-0704	7.5	[16.5]
151-0705	8.0	[17.6]
151-0706	8.5	[18.7]
151-0707	9.0	[19.8]
151-0708	9.5	[20.9]
151-0710	6.7	[14.8]
151-0711	6.9	[15.2]
151-0712	7.0	[15.4]
151-0713	7.2	[15.9]
151-0714	7.5	[16.5]
151-0715	8.0	[17.6]
151-0716	8.5	[18.7]
151-0717	9.0	[19.8]
151-0718	9.5	[20.9]
151-0720	6.7	[14.8]
151-0721	6.9	[15.2]
151-0722	7.0	[15.4]
151-0723	7.2	[15.9]
151-0724	7.5	[16.5]
151-0725	8.0	[17.6]
151-0726	8.5	[18.7]
151-0727	9.0	[19.8]
151-0728	9.5	[20.9]
151-1208	5.6	[12.3]
151-1209	5.7	[12.6]
151-1210	5.9	[13.0]
151-1211	6.2	[13.7]
151-1212	6.4	[14.1]
151-1213	6.6	[14.6]
151-1214	6.9	[15.2]
151-1215	7.4	[16.3]
151-1217	6.0	[13.2]
151-1231	6.7	[14.8]
151-1232	6.9	[15.2]
151-1233	7.0	[15.4]
151-1234	7.5	[16.5]
151-1235	8.0	[17.6]
151-1236	8.5	[18.7]
151-1237	9.0	[19.8]
151-1238	7.2	[15.9]
151-1243	9.5	[20.9]

Weight of Motors

Code no	Weight	
	kg	[lb]
151-5001	5.6	[12.3]
151-5002	5.7	[12.6]
151-5003	5.9	[13.0]
151-5004	6.0	[13.2]
151-5005	6.2	[13.7]
151-5006	6.4	[14.1]
151-5007	6.6	[14.6]
151-5008	6.9	[15.2]
151-5009	7.4	[16.3]
151-5010	5.4	[11.9]
151-5174	5.4	[11.9]
151-5191	6.1	[13.4]
151-5192	6.2	[13.7]
151-5193	6.4	[14.1]
151-5194	6.5	[14.3]
151-5195	6.7	[14.8]
151-5196	6.9	[15.2]
151-5197	7.1	[15.7]
151-5198	7.4	[16.3]
151-5199	7.9	[17.4]
151-5211	5.5	[12.1]
151-5212	5.6	[12.3]
151-5213	5.8	[12.8]
151-5214	5.9	[13.0]
151-5215	6.1	[13.4]
151-5216	6.3	[13.9]
151-5217	6.5	[14.3]
151-5218	6.8	[15.0]
151-5219	7.3	[16.1]
151-5301	5.5	[12.1]
151-5302	5.6	[12.3]
151-5303	5.8	[12.8]
151-5304	5.9	[13.0]
151-5305	6.1	[13.4]
151-5306	6.3	[13.9]
151-5307	6.5	[14.3]
151-5308	6.8	[15.0]
151-5309	7.3	[16.1]
151-5311	5.6	[12.3]
151-5312	5.7	[12.6]
151-5313	5.9	[13.0]
151-5315	6.2	[13.7]
151-5316	6.4	[14.1]
151-5318	6.9	[15.2]
151-6000	6.7	[14.8]
151-6001	6.9	[15.2]
151-6002	7.0	[15.4]
151-6003	7.2	[15.9]
151-6004	7.5	[16.5]
151-6005	8.0	[17.6]
151-6006	8.5	[18.7]

Code no	Weight	
	kg	[lb]
151-6007	9.0	[19.8]
151-6008	9.5	[20.9]
151-6010	6.7	[14.8]
151-6011	6.9	[15.2]
151-6012	7.0	[15.4]
151-6013	7.2	[15.9]
151-6014	7.5	[16.5]
151-6015	8.0	[17.6]
151-6016	8.5	[18.7]
151-6017	9.0	[19.8]
151-6018	9.5	[20.9]
151-6110	6.7	[14.8]
151-6111	6.9	[15.2]
151-6112	7.0	[15.4]
151-6113	7.2	[15.9]
151-6114	7.5	[16.5]
151-6115	8.0	[17.6]
151-6116	8.5	[18.7]
151-6117	9.0	[19.8]
151-6118	9.5	[20.9]
151-6190	7.3	[16.1]
151-6191	7.5	[16.5]
151-6192	7.6	[16.8]
151-6193	7.8	[17.2]
151-6194	8.1	[17.9]
151-6195	8.6	[19.0]
151-6196	9.1	[20.1]
151-6197	9.6	[21.2]
151-6198	10.1	[22.3]
151-6210	6.7	[14.8]
151-6211	6.9	[15.2]
151-6212	7.0	[15.4]
151-6213	7.2	[15.9]
151-6214	7.5	[16.5]
151-6215	8.0	[17.6]
151-6216	8.5	[18.7]
151-6217	9.0	[19.8]
151-6218	9.5	[20.9]
151-6294	9.5	[20.9]
151-6295	7.2	[15.9]
151-6296	9.5	[20.9]
151-6300	9.0	[19.8]
151-6301	9.4	[20.7]
151-6302	9.5	[20.9]
151-6303	9.7	[21.4]
151-6304	10.0	[22.1]
151-6305	10.5	[23.1]
151-6306	11.0	[24.3]
151-6307	11.5	[25.4]
151-6308	12.0	[26.5]
151-6380	6.7	[14.8]

Code no	Weight	
	kg	[lb]
151-6381	6.9	[15.2]
151-6383	7.2	[15.9]
151-6384	7.5	[16.5]
151-6385	8.0	[17.6]
151-6386	8.5	[18.7]
151-6387	9.0	[19.8]
151-6388	9.5	[20.9]
151-6430	9.0	[19.8]
151-6431	9.4	[20.7]
151-6432	9.5	[20.9]
151-6433	9.7	[21.4]
151-6434	10.0	[22.1]
151-6435	10.5	[23.1]
151-6436	11.0	[24.3]
151-6437	11.5	[25.4]
151-6438	12.0	[26.5]
151-6442	14.5	[32.0]
151-6443	14.7	[32.4]
151-6444	15.0	[33.1]
151-6445	15.5	[34.2]
151-6461	11.5	[25.4]
151-6462	12.0	[26.5]
151-6463	12.0	[26.5]
151-6464	12.5	[27.6]
151-6465	12.5	[27.6]
151-6466	13.0	[28.7]
151-6467	13.5	[29.8]
151-6468	14.0	[30.9]
151-6471	11.5	[25.4]
151-6472	12.0	[26.5]
151-6473	12.0	[26.5]
151-6474	12.5	[27.6]
151-6475	12.5	[27.6]
151-6476	13.0	[28.7]
151-6477	13.5	[29.8]
151-6478	14.0	[30.9]
151-7021	5.0	[11.0]
151-7022	5.1	[11.2]
151-7023	5.3	[11.7]
151-7024	5.4	[11.9]
151-7025	5.6	[12.3]
151-7026	5.8	[12.8]
151-7027	6.0	[13.2]
151-7028	6.3	[13.9]
151-7029	6.8	[15.0]
151-7041	5.6	[12.3]
151-7042	5.7	[12.6]
151-7043	5.9	[13.0]
151-7044	5.4	[11.9]
151-7045	6.2	[13.7]
151-7046	6.4	[14.1]

Weight of Motors

Code no	Weight	
	kg	[lb]
151-7047	6.6	[14.6]
151-7048	6.9	[15.2]
151-7049	7.4	[16.3]
151-7061	5.0	[11.0]
151-7062	5.1	[11.2]
151-7063	5.3	[11.7]
151-7065	5.6	[12.3]
151-7066	5.8	[12.8]
151-7067	6.0	[13.2]
151-7068	6.3	[13.9]
151-7069	6.8	[15.0]
151-7080	5.4	[12.0]
151-7081	5.4	[12.0]
151-7082	5.6	[12.3]
151-7101	5.5	[12.1]
151-7102	5.6	[12.3]
151-7103	5.8	[12.8]
151-7104	5.9	[13.0]
151-7105	6.1	[13.4]
151-7106	6.3	[13.9]
151-7107	6.5	[14.3]
151-7108	6.8	[15.0]
151-7109	7.3	[16.1]
151-7240	6.7	[14.8]
151-7241	6.9	[15.2]
151-7242	7.0	[15.4]
151-7243	7.2	[15.9]
151-7244	7.5	[16.5]
151-7245	8.0	[17.6]
151-7246	8.5	[18.7]
151-7247	9.0	[19.8]
151-7248	9.5	[20.9]
151-7250	6.7	[14.8]
151-7251	6.9	[15.2]
151-7252	7.0	[15.4]
151-7253	7.2	[15.9]
151-7254	7.5	[16.5]
151-7255	8.0	[17.6]
151-7256	8.5	[18.7]
151-7257	9.0	[19.8]
151-7258	9.5	[20.9]
151-7260	6.1	[13.4]
151-7261	6.3	[13.9]
151-7262	6.4	[14.1]
151-7263	6.6	[14.6]
151-7264	6.9	[15.2]
151-7265	7.4	[16.3]
151-7266	7.9	[17.4]
151-7267	8.4	[18.5]
151-7269	8.9	[19.6]
151H1002	10.5	[23.1]

Code no	Weight	
	kg	[lb]
151H1003	11.0	[24.3]
151H1004	11.5	[25.4]
151H1005	12.3	[27.1]
151H1006	13.0	[28.7]
151H1012	10.5	[23.1]
151H1013	11.0	[24.3]
151H1014	11.5	[25.4]
151H1015	12.3	[27.1]
151H1016	13.0	[28.7]
151H1022	10.5	[23.1]
151H1023	11.0	[24.3]
151H1024	11.5	[25.4]
151H1025	12.3	[27.1]
151H1026	13.0	[28.7]
151H1034	11.5	[25.4]
151H1035	12.3	[27.1]
151H1036	13.0	[28.7]
151H1042	10.5	[23.1]
151H1043	11.0	[24.3]
151H1044	11.5	[25.4]
151H1045	12.3	[27.1]
151H1046	13.0	[28.7]
151H1052	10.5	[23.1]
151H1053	11.0	[24.3]
151H1054	11.5	[25.4]
151H1055	12.3	[27.1]
151H1056	13.0	[28.7]
151H1080	10.5	[23.1]
151H1081	13.0	[28.7]
151H1082	11.0	[24.3]
151H1083	11.5	[25.4]
151H1084	12.3	[27.1]



Factory 19 / 5 Lyn Parade PRESTONS NSW 2170
 Ph: (02) 9607 4100 Fax: (02) 9607 4200