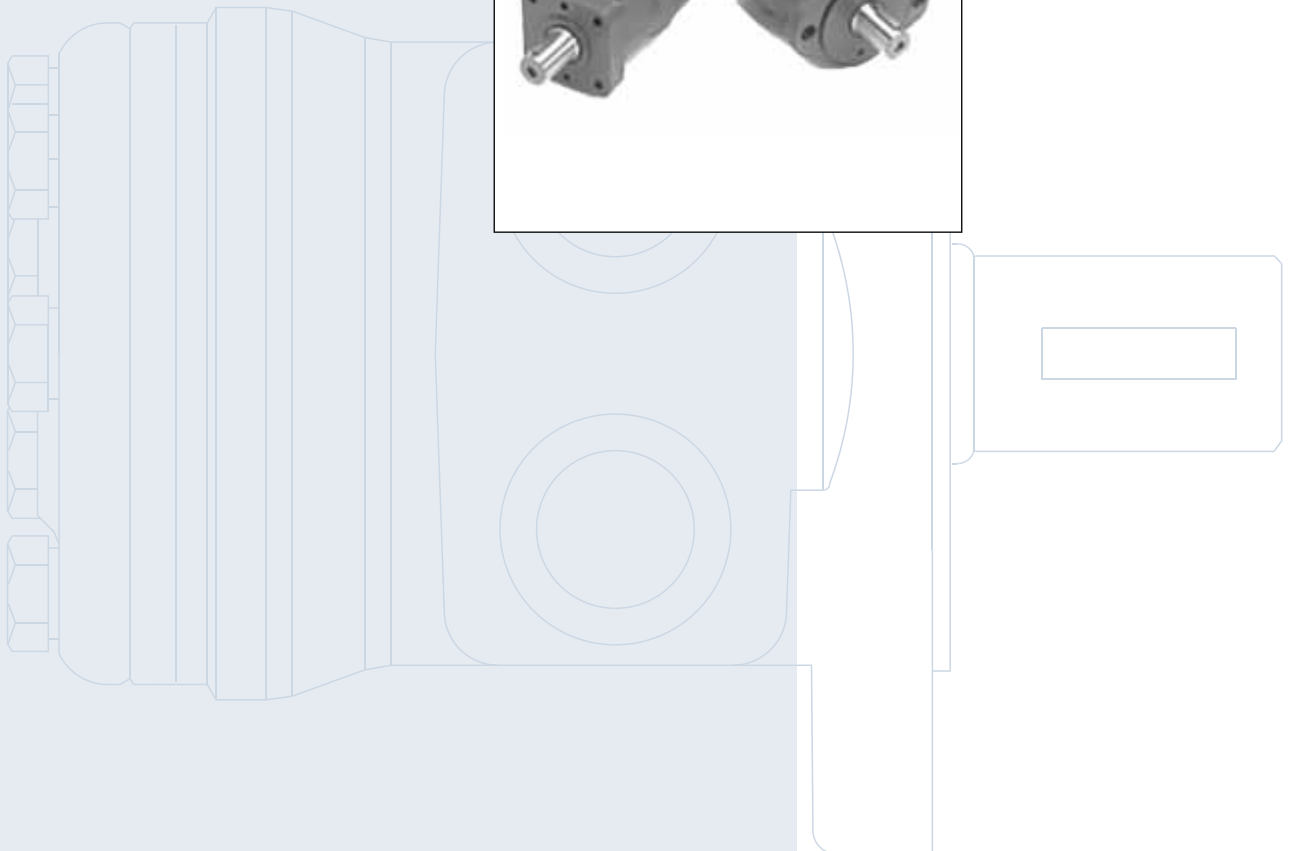


DH
Orbital Motors

Technical
Information





P300 100

A Wide Range of Orbital Motors

Sauer-Danfoss is a world leader in the production of low speed high torque orbital motors offering more than 1600 different orbital motors, categorized 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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Frontpage: P300 048, P300 047, P300 047b, F300 020, 151-1914

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

- Motors with corrosion resistant parts
- Wheel motors with recessed mounting flange
- OMP, OMR- motors with needle bearings
- 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 Orbital
Motors**

Detailed data on all Sauer-Danfoss motors can be found in our motor catalogue, which is divided into 5 individual sub-catalogues:

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

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

Contents

DH and DS 5
 Speed, torque and output 5

DH 6
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 Technical data (e.g. speed, torque pressure etc.) 8
 Max. permissible shaft seal pressure 9
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 Permissible shaft loads 11
 Function diagrams 12
 Shaft version 17
 Port thread versions 18
 Dimensions 19

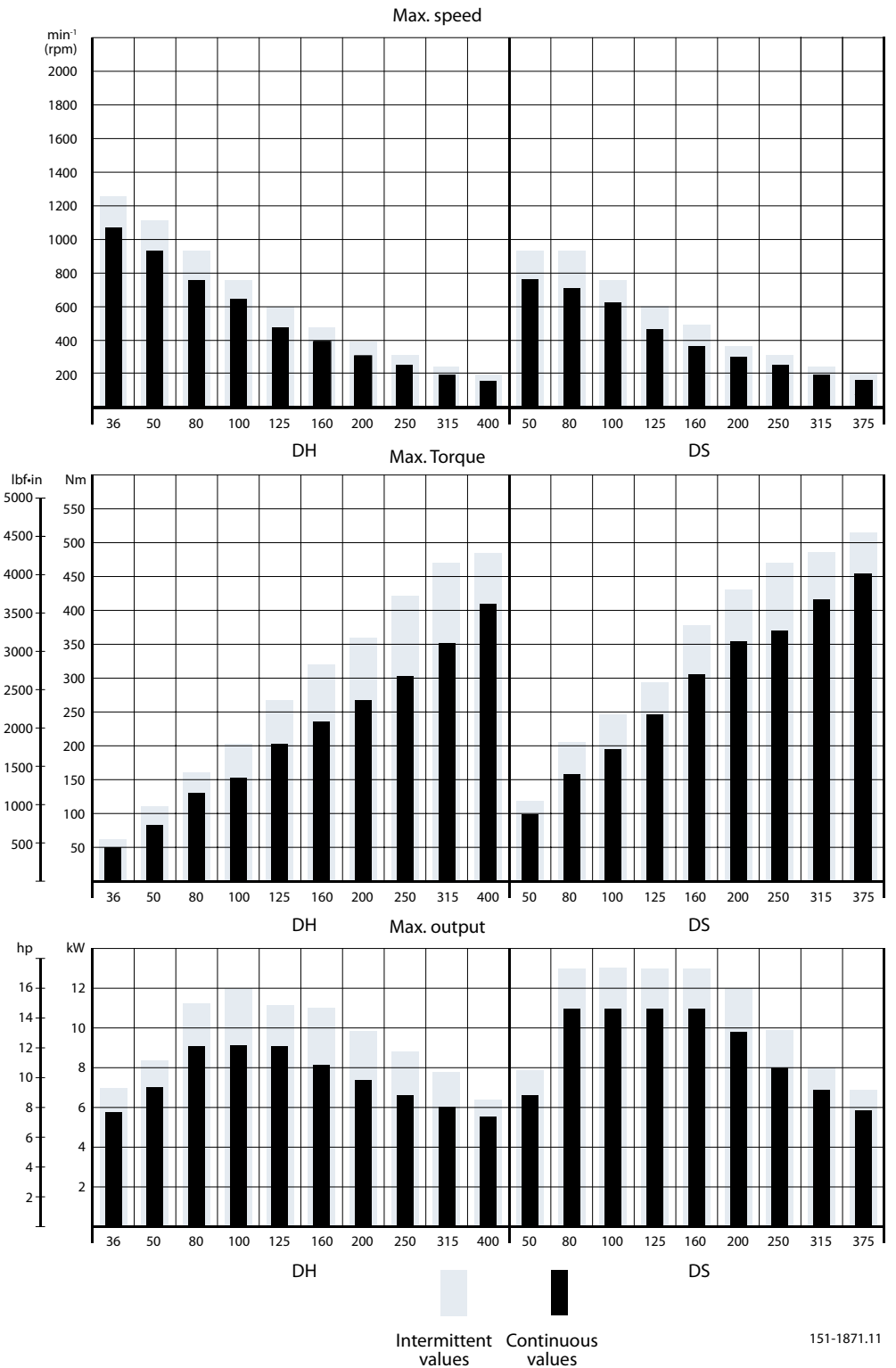
Speed, Torque and Output

The bar diagrams, see page 5, 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.

- DH can be found on pages 12-16
- DS can be found on pages 32-36

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" DKMH.PK.100.G2.02 520L0232.

Speed, Torque and Output



Versions

Mounting flange	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	Specials	Main type designation
2 hole oval flange (A2-flange)	Cyl. 1 in	7/8 - 14 UNF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	No	No		DH
		7/8 - 14 UNF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	Yes	No		DH
		1/2 - 14 NPTF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	No	No		DH
		1/2 - 14 NPTF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	Yes	No		DH
		Manifold		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	No	No		DH
	1 in - 6B spl.	7/8 - 14 UNF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	No	No		DH
		7/8 - 14 UNF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	Yes	No		DH
		1/2 - 14 NPTF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	No	No		DH
		Manifold		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	No	No		DH
		Manifold		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	Yes	No		DH
Square flange (C-flange)	Cyl. 1 in	7/8 - 14 UNF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	No	No		DH
		7/8 - 14 UNF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	Yes	No		DH
		1/2 - 14 NPTF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	No	No		DH
		1/2 - 14 NPTF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	Yes	No		DH
		Manifold		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	No	No		DH
	1 in - 6B spl.	7/8 - 14 UNF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	No	No		DH
		7/8 - 14 UNF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	Yes	No		DH
		1/2 - 14 NPTF		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	No	No		DH
		Manifold		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	No	No		DH

Function diagram - see page: →

Features available (options) :
 1 in output shaft with cross hole
 Output shaft 7/8 - 13T splines
 Reverse rotation
 Drain port
 Painted

Code Numbers

CODE NUMBERS	DISPLACEMENT [cm ³]										Technical data - Page	Dimensions - Page
	36	50	80	100	125	160	200	250	315	400		
151-	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	8	19
151-	3400	3401	3402	3403	3404	3405	3406	3407	3408	3409	8	20
151-	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	8	19
151-	3480	3481	3482	3483	3484	3485	3486	3487	3488	3489	8	20
151-	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	8	21
151-	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	8	19
151-	3410	3411	3412	3413	3414	3415	3416	3417	3418	3419	8	20
151-	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	8	19
151-	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	8	21
151-	3570	3571	3572	3573	3574	3575	3576	3577	3578	3579	8	22
151-	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	8	23
151-	3440	3441	3442	3443	3444	3445	3446	3447	3448	3449	8	24
151-	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	8	23
151-	3520	3521	3522	3523	3524	3525	3526	3527	3528	3529	8	24
151-	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	8	25
151-	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	8	23
151-	3450	3451	3452	3453	3454	3455	3456	3457	3458	3459	8	24
151-	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	8	23
151-	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	8	25
→	12	12	13	13	14	14	15	15	16	16		

Ordering

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

Example:

151-2000 for an DH 36 with A2-flange, cyl. 1 in shaft, port size $\frac{7}{8}$ - 14 UNF and without drain connection.

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

Technical data for DH with 1 in cylindrical and 1 in-6b splined shaft

Type Motor size		DH	DH	DH	DH	DH	DH	DH	DH	DH	DH	
		36	50	80	100	125	160	200	250	315	400	
Geometric displacement	cm ³ [in ³]	36.0 [2.20]	48.6 [2.97]	77.8 [4.76]	97.3 [5.95]	125.0 [7.65]	155.7 [9.53]	194.6 [11.91]	242.3 [14.83]	306.1 [18.73]	389.2 [23.82]	
Max. speed	min ⁻¹ [rpm]	cont.	1050	930	780	620	485	390	310	250	200	155
		int. ²⁾	1270	1090	975	780	605	485	390	315	245	195
Max. torque ¹⁾	Nm [lbf-in]	cont.	59 [520]	79 [700]	125 [1110]	158 [1400]	203 [1800]	235 [2080]	267 [2360]	305 [2700]	355 [3140]	410 [3630]
		int. ²⁾	76 [670]	106 [940]	163 [1440]	214 [1890]	270 [2390]	320 [2830]	360 [3190]	415 [3670]	470 [4160]	485 [4290]
Max. output	kW [hp]	cont.	5.8 [7.9]	6.8 [9.3]	8.8 [12.0]	8.8 [12.0]	8.8 [12.0]	8.1 [10.9]	7.4 [9.0]	6.6 [8.9]	6.0 [8.0]	5.5 [7.4]
		int. ²⁾	7.0 [9.5]	8.2 [11.2]	11.4 [15.5]	11.8 [16.0]	11.0 [15.0]	11.1 [14.1]	9.8 [13.1]	8.8 [11.8]	7.8 [10.5]	6.4 [8.6]
Max. pressure drop	bar [psi]	cont.	124 [1800]	124 [1800]	124 [1800]	124 [1800]	124 [1800]	117 [1700]	103 [1500]	97 [1400]	90 [1300]	83 [1200]
		int. ²⁾	166 [2400]	166 [2400]	166 [2400]	166 [2400]	166 [2400]	159 [2300]	141 [2050]	131 [1900]	121 [1750]	97 [1400]
Max. oil flow	l/min [US gal/min]	cont.	38 [10.0]	45 [11.9]	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. ²⁾	45 [11.9]	55 [14.5]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	75 [19.8]	7 [19.8]	75 [19.8]
Max. starting pressure with unloaded shaft	bar [psi]	10 [145]	10 [145]	10 [145]	10 [145]	10 [145]	10 [145]	7 [100]	7 [100]	7 [100]	7 [100]	
Min. starting torque	at max. press. drop cont.	53 [470]	72 [635]	115 [1020]	144 [1275]	185 [1640]	217 [1920]	240 [2125]	279 [2470]	330 [2920]	385 [3405]	
	at max. press. drop int. ¹⁾	66 [585]	96 [850]	154 [1360]	192 [1700]	247 [2185]	295 [2610]	327 [2895]	379 [3355]	444 [3930]	451 [3990]	
	Nm [lbf-in]											

Type		Max. inlet pressure	Max return pressure with drain line
DH 36 - 400	bar	138	138
	[psi]	[2000]	[2000]
	cont.		
	bar	172	172
	[psi]	[2500]	[2500]
	int. ¹⁾		

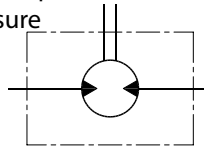
¹⁾ 6B splined shaft is recommended for operating torque of 280 Nm [2500 lbf-in] or more.

²⁾ Intermittent operation: the permissible values may occur for max. 10% of every minute.

Max. Permissible Shaft Seal Pressure

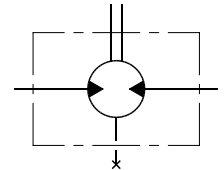
DH with HPS and without drain connection:
 The shaft seal pressure equals the average of input pressure and return pressure.

$$P_{\text{seal}} = \frac{P_{\text{in}} + P_{\text{return}}}{2}$$



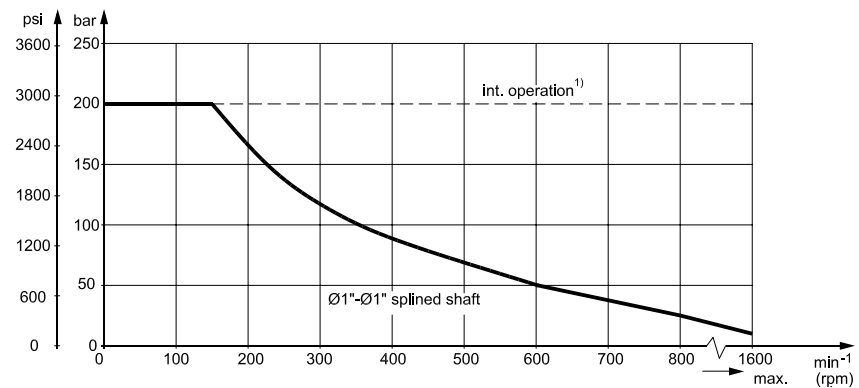
151-1743.10

DH with HPS and drain connection:
 The shaft seal pressure equals the pressure in the drain line.



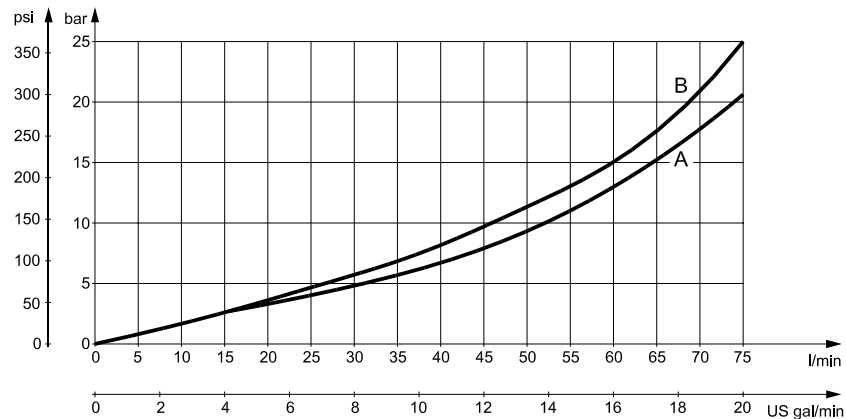
151-1855.10

Max. permissible shaft seal pressure



151-1872.10

Pressure Drop in Motor



151-1873.10

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

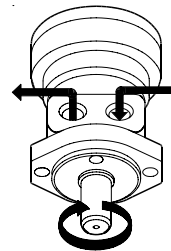
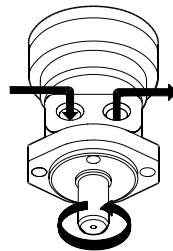
- A: DH 80 - 400
- B: DH 36-50

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 [165]	3.5 [0.93]
	35 [165]	2.8 [0.74]

**Direction of Shaft
Rotation**



151-1874.10

Permissible Shaft Loads for DH

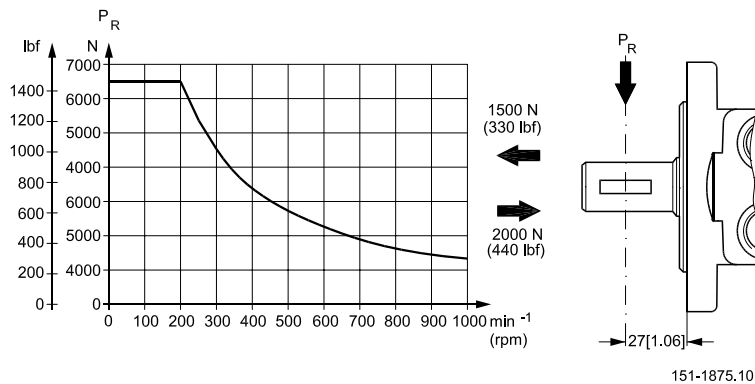
The permissible radial shaft load (P_R) depends on

- speed (n)
- distance (l) from the point of load to the mounting flange
- mounting flange version
- shaft version

Mounting flange	Square flange 2-hole oval flange (US version)
Shaft version	1 in cylindrical shaft 1 in-6B splined shaft
Permissible shaft load (P_R) l in mm	$\frac{650}{n} \times \frac{228000}{87 + l} \text{ N}^*$
Permissible shaft load (P_R) l in inch	$\frac{1460}{n} \times \frac{898}{3.425 + l} \text{ lbf}^*$

* $n \geq 200 \text{ min}^{-1} \text{ (rpm)}$; $l \leq 55 \text{ mm [2.2 in]}$

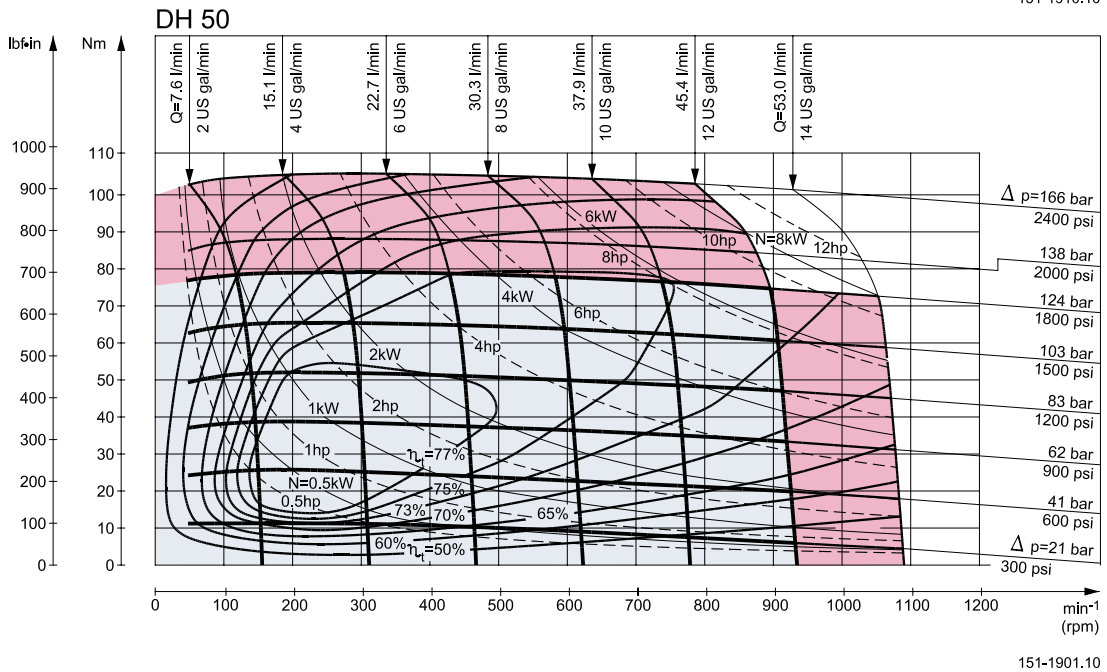
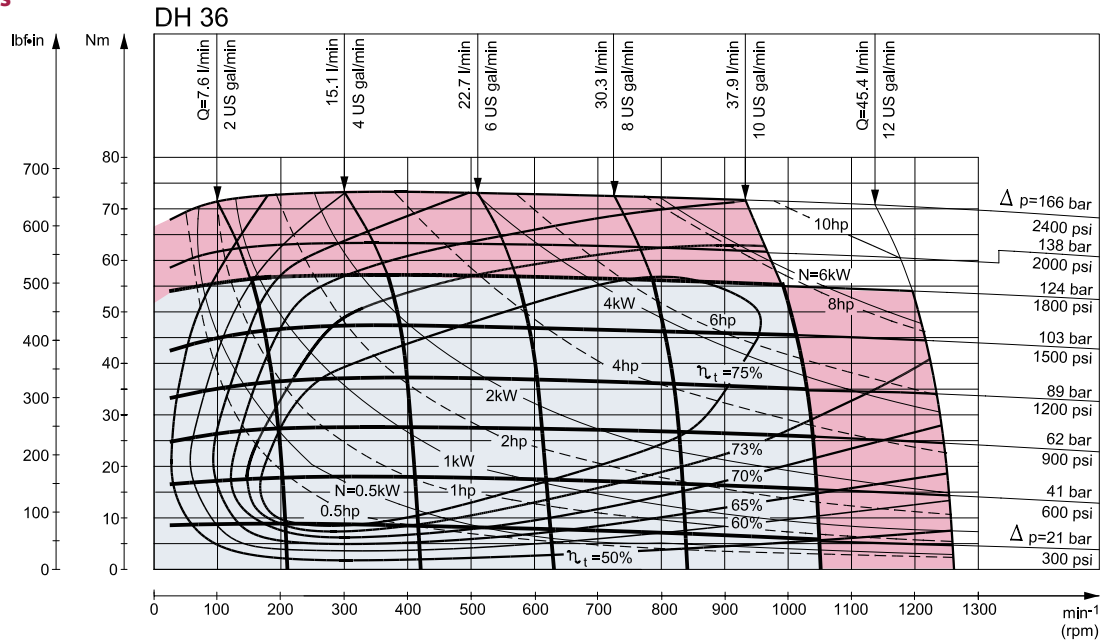
$n < 200 \text{ min}^{-1} \text{ (rpm)}$; $\Rightarrow P_{R\text{max}} = 6500 \text{ N [1460 lbf]}$, when using above formulas n has to be $200 \text{ min}^{-1} \text{ (rpm)}$.



The curve shows the relation between P_R and n

- when $l = 27 \text{ mm [1.06 in]}$ for motors with oval and square mounting flange

Function Diagrams



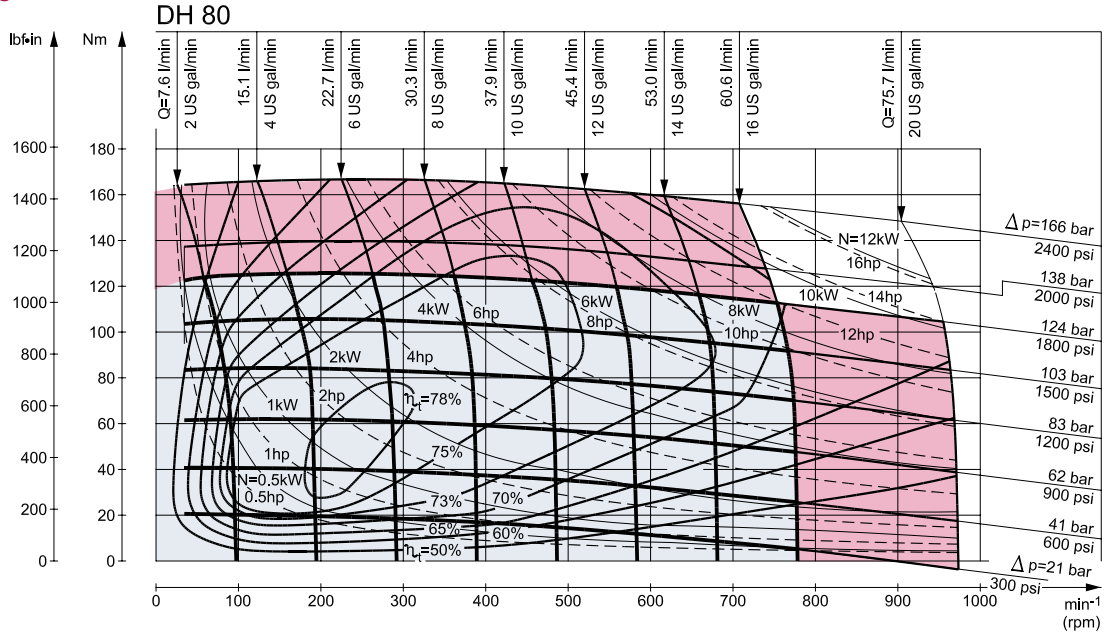
Explanation of function diagram use, basis and conditions can be found on page 4.

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

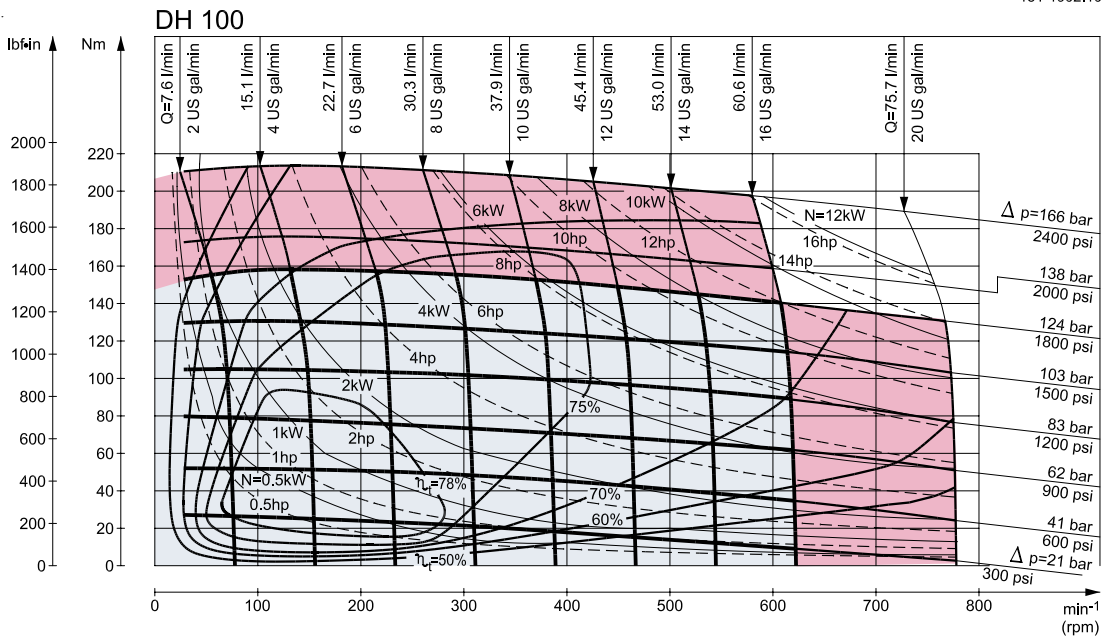
Max. permissible continuous/intermittent pressure drop for the actual shaft version can be found on page 8.

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

Function Diagrams



151-1902.10



151-1903.10

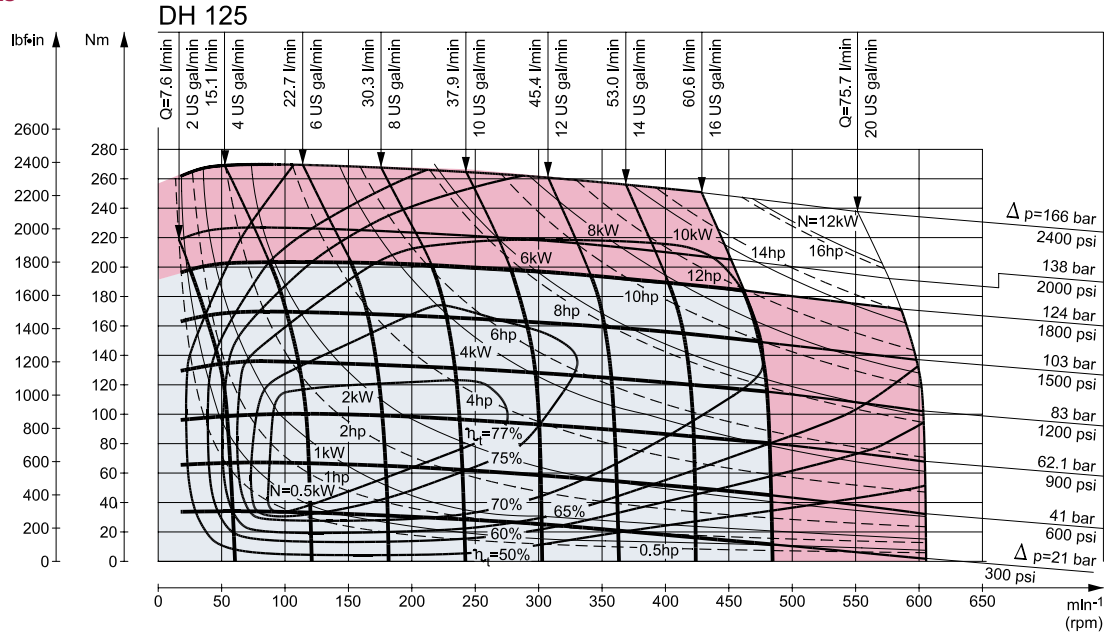
Explanation of function diagram use, basis and conditions can be found on page 4.

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

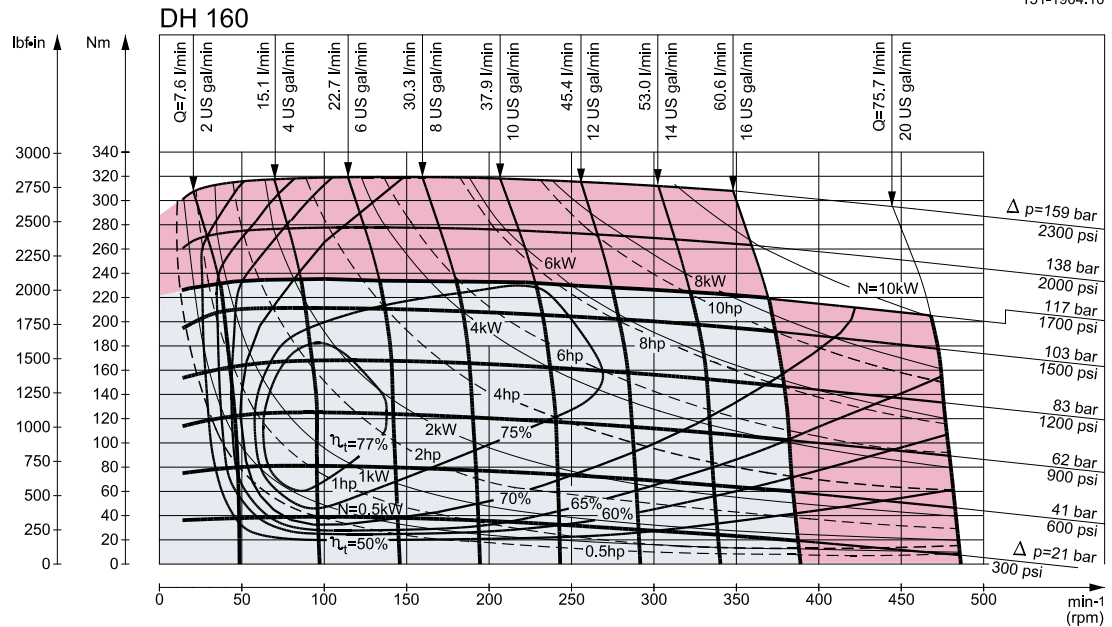
Max. permissible continuous/intermittent pressure drop for the actual shaft version can be found on page 8.

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

Function Diagrams



151-1904.10



151-1885.10

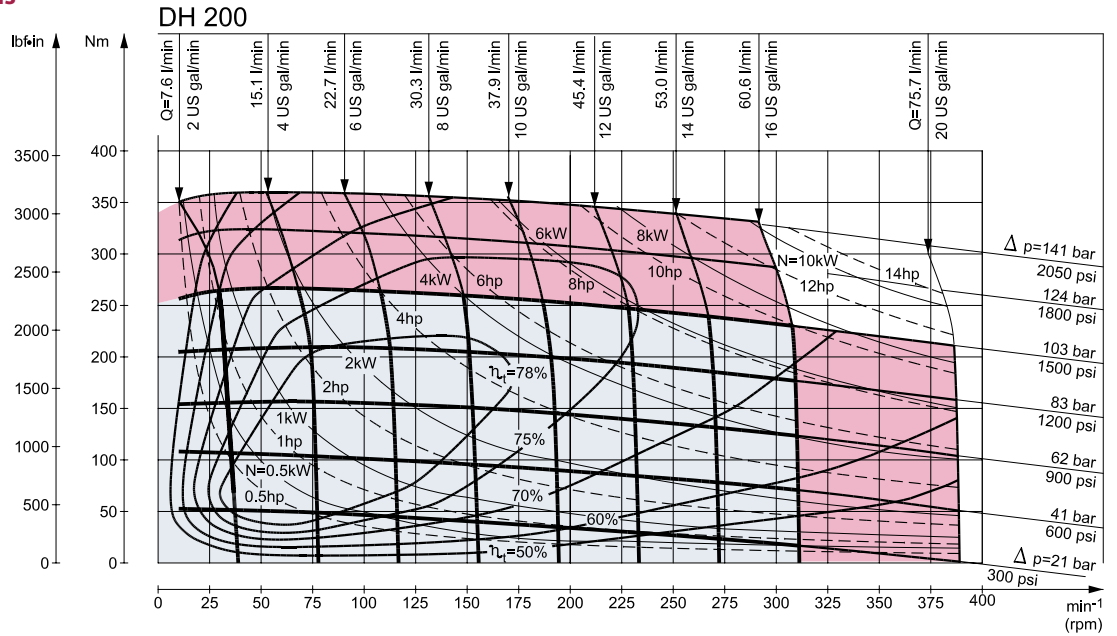
Explanation of function diagram use, basis and conditions can be found on page 4.

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

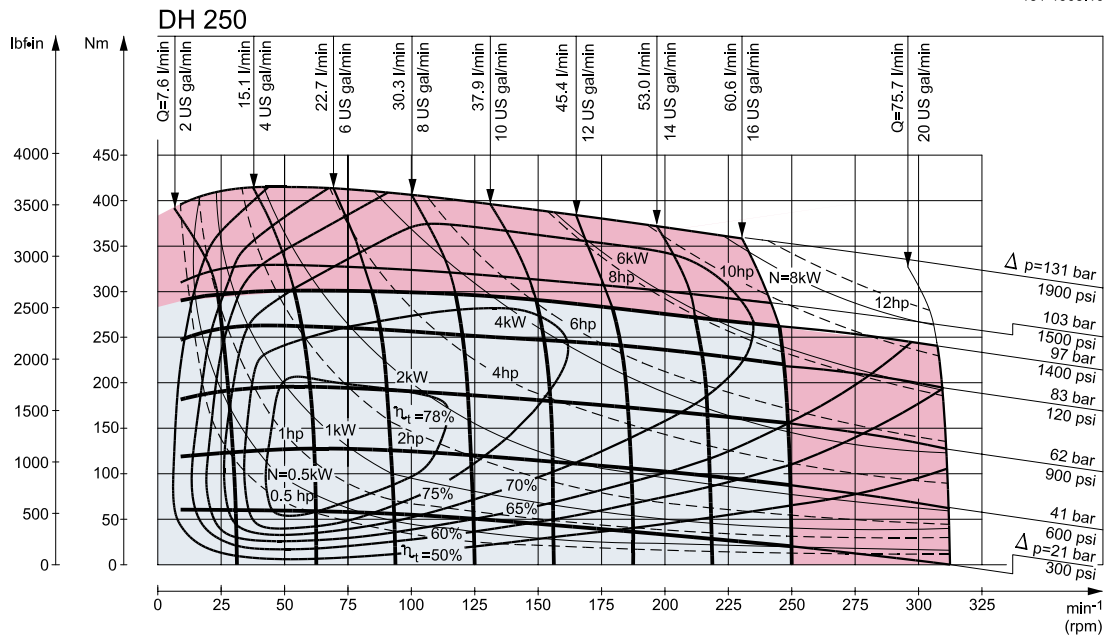
Max. permissible continuous/intermittent pressure drop for the actual shaft version can be found on page 8.

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

Function Diagrams



151-1905.10



151-1906.10

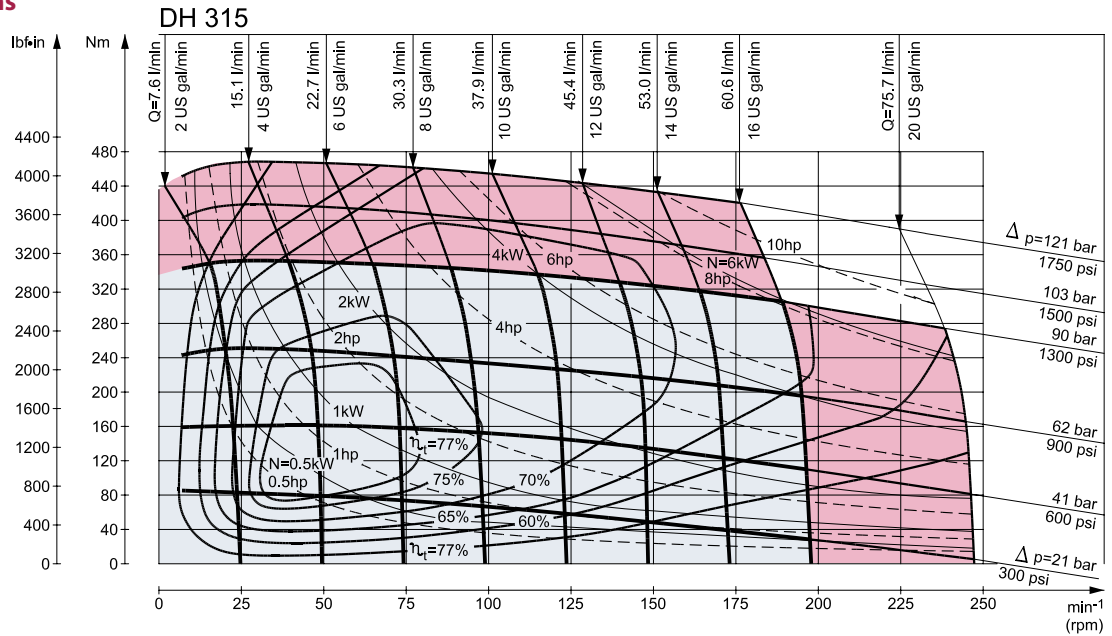
Explanation of function diagram use, basis and conditions can be found on page 4.

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

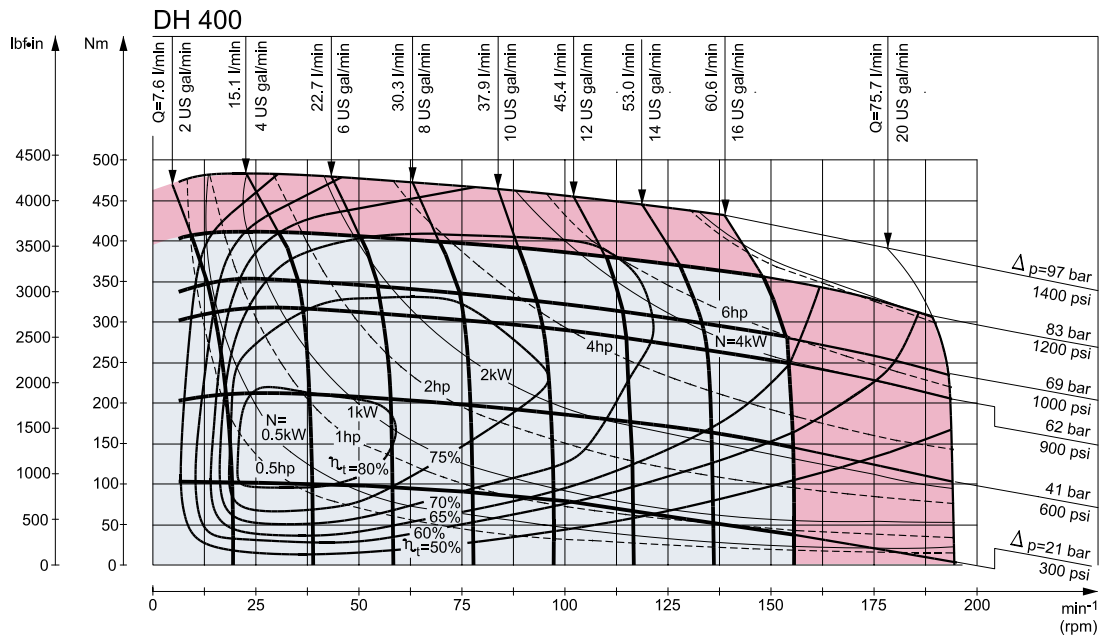
Max. permissible continuous/intermittent pressure drop for the actual shaft version can be found on page 8.

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

Function Diagrams



151-1907.10



151-1908.10

Explanation of function diagram use, basis and conditions can be found on page 4.

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

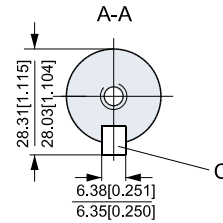
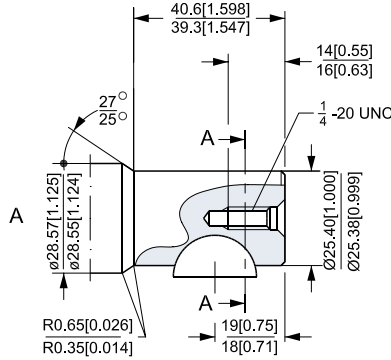
Max. permissible continuous/intermittent pressure drop for the actual shaft version can be found on page 8.

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

Shaft Version

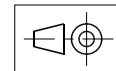
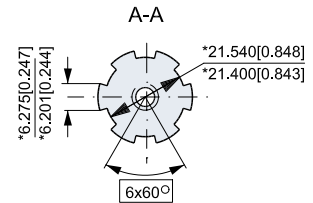
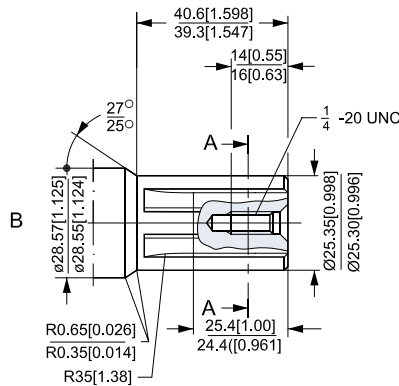
US version

- A: Cylindrical shaft
1 in
- C: Parallel key
1/4 x 1 in
SAE J502



US version

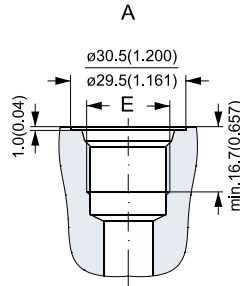
- B: Splined shaft
1 in - SAE 6B
- C: Parallel key
1/4 x 1/4 x 1 1/4 in
B.S. 46
- * Deviates from B.S. 2059
(SAE 6B)



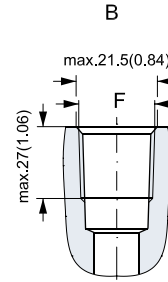
151-1876.10

Note: 6B splined shaft is recommended for operating torque of 280 Nm [2500 lbf-in] or more.

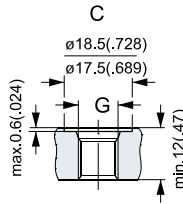
Port Thread Versions



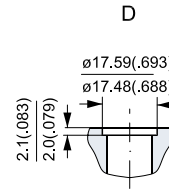
A: UNF main ports
E: $\frac{7}{8}$ - 14 UNF
O-ring boss port



B: NPTF main ports
F: $\frac{1}{2}$ - 14 NPTF



C: UNF drain port
G: $\frac{7}{16}$ - 20 UNF
O-ring boss port



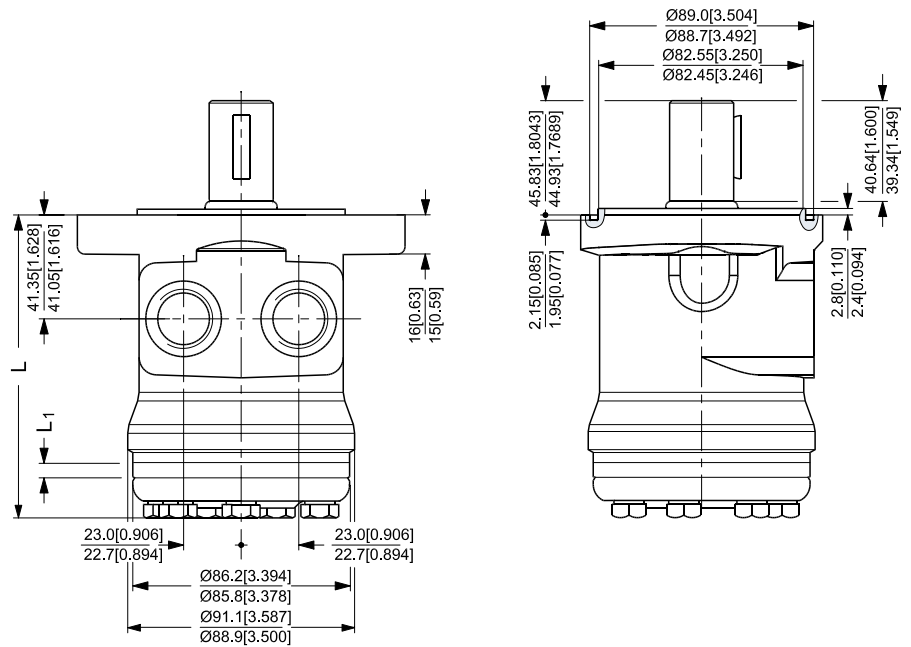
D: Manifold main port

151-1881.10

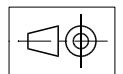
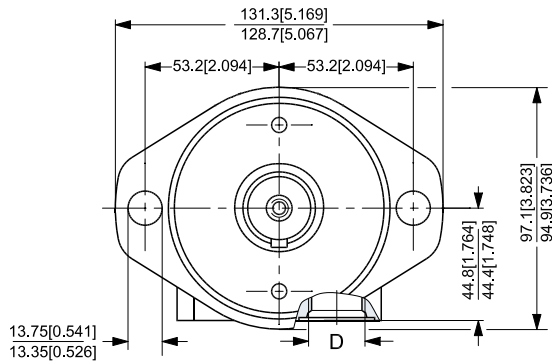
Dimensions

Side port version with 2 hole oval mounting flange (A2-flange).
 Port thread version.

Type	L mm [in]	L ₁ mm [in]
DH 36	119.7 [4.71]	5.9 [0.23]
DH 50	120.3 [4.74]	6.5 [0.26]
DH 80	124.2 [4.89]	10.4 [0.41]
DH 100	126.8 [4.99]	13.0 [0.51]
DH 125	130.5 [5.14]	16.7 [0.66]
DH 160	134.6 [5.30]	20.8 [0.82]
DH 200	139.8 [5.50]	26.0 [1.02]
DH 250	146.3 [5.76]	32.5 [1.28]
DH 315	154.7 [6.09]	40.9 [1.61]
DH 400	165.8 [6.53]	52.0 [2.05]



D: 7/8 - 14 UNF,
 16.7 mm [0.66 in] deep
 O-ring boss port or
 1/2 - 14 NPTF

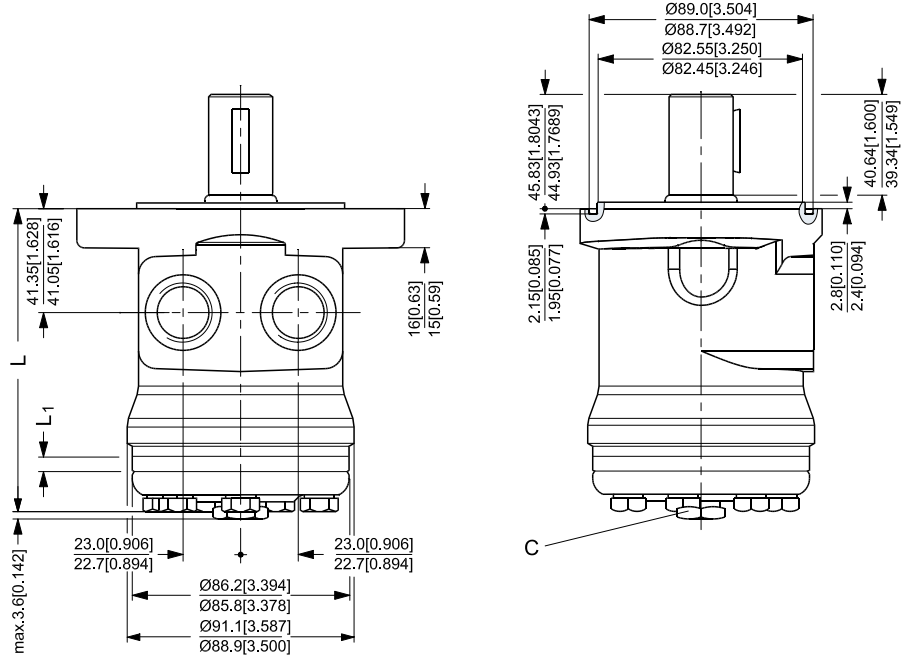


151-1877.10

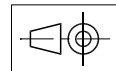
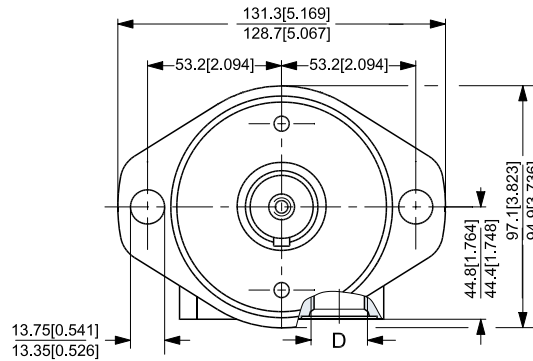
Dimensions

Side port version with 2 hole oval mounting flange (A2-flange).
With drain connection.
Port thread version.

Type	L mm [in]	L ₁ mm [in]
DH 36	119.7 [4.71]	5.9 [0.23]
DH 50	120.3 [4.74]	6.5 [0.26]
DH 80	124.2 [4.89]	10.4 [0.41]
DH 100	126.8 [4.99]	13.0 [0.51]
DH 125	130.5 [5.14]	16.7 [0.66]
DH 160	134.6 [5.30]	20.8 [0.82]
DH 200	139.8 [5.50]	26.0 [1.02]
DH 250	146.3 [5.76]	32.5 [1.28]
DH 315	154.7 [6.09]	40.9 [1.61]
DH 400	165.8 [6.53]	52.0 [2.05]



- C: 7/16 - 20 UNF,
12 mm [0.47 in] deep
- D: 7/8 - 14 UNF,
16.7 mm [0.66 in] deep
O-ring boss port or
1/2 - 14 NPTF



151-1890.10

Dimensions

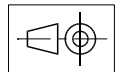
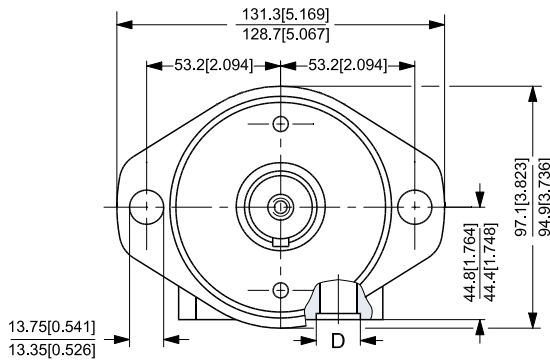
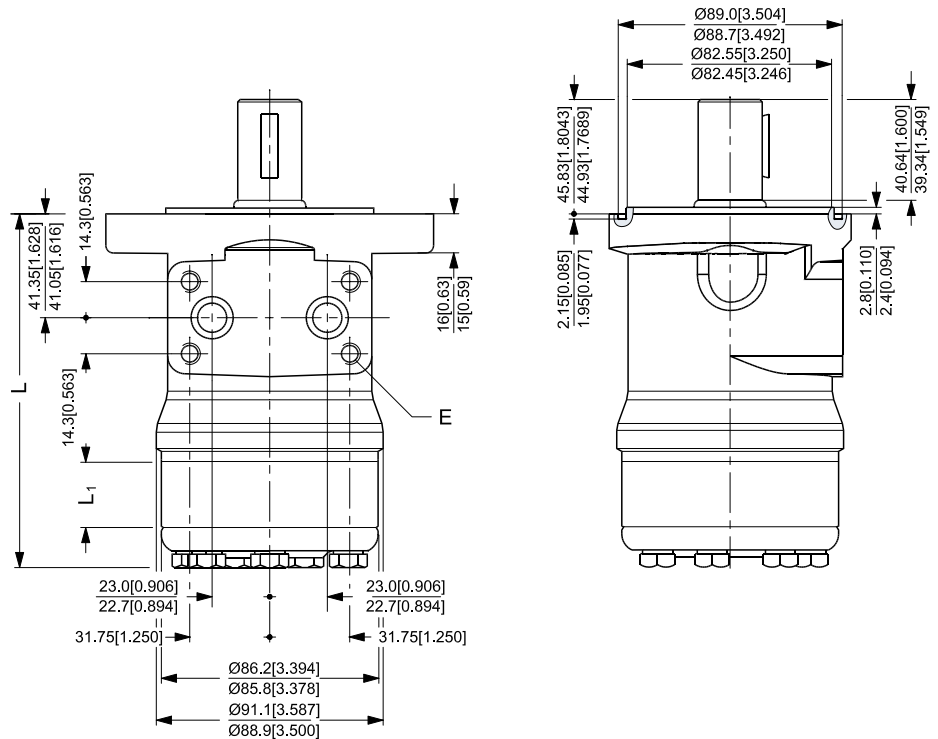
Side port version with 2 hole oval mounting flange (A2-flange).
 Manifold version.

Type	L mm [in]	L ₁ mm [in]
DH 36	119.7 [4.71]	5.9 [0.23]
DH 50	120.3 [4.74]	6.5 [0.26]
DH 80	124.2 [4.89]	10.4 [0.41]
DH 100	126.8 [4.99]	13.0 [0.51]
DH 125	130.5 [5.14]	16.7 [0.66]
DH 160	134.6 [5.30]	20.8 [0.82]
DH 200	139.8 [5.50]	26.0 [1.02]
DH 250	146.3 [5.76]	32.5 [1.28]
DH 315	154.7 [6.09]	40.9 [1.61]
DH 400	165.8 [6.53]	52.0 [2.05]

D: 2 × Ø17.48 mm [0.69 in]

E: 4 × ⁵/₁₆ - 18 UNC;

13 mm [0.51 in] deep

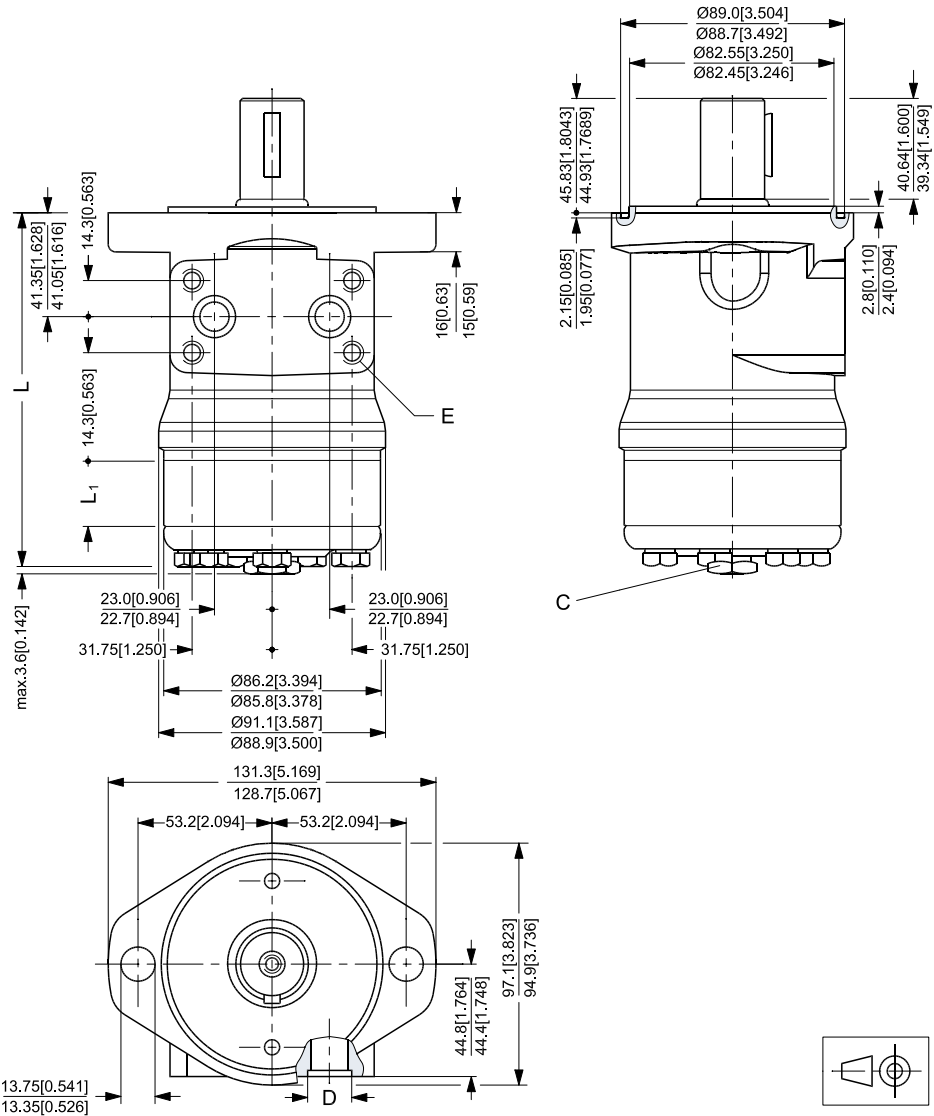


151-1878.10

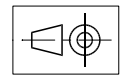
Dimensions

Side port version with 2 hole oval mounting flange (A2-flange).
 With drain connection.
 Manifold version.

Type	L mm [in]	L ₁ mm [in]
DH 36	119.7 [4.71]	5.9 [0.23]
DH 50	120.3 [4.74]	6.5 [0.26]
DH 80	124.2 [4.89]	10.4 [0.41]
DH 100	126.8 [4.99]	13.0 [0.51]
DH 125	130.5 [5.14]	16.7 [0.66]
DH 160	134.6 [5.30]	20.8 [0.82]
DH 200	139.8 [5.50]	26.0 [1.02]
DH 250	146.3 [5.76]	32.5 [1.28]
DH 315	154.7 [6.09]	40.9 [1.61]
DH 400	165.8 [6.53]	52.0 [2.05]



- C: 7/16 - 20 UNF,
12 mm [0.47 in] deep
- D: 2 × Ø17.48 mm [0.69 in]
- E: 4 × 5/16 - 18 UNC;
13 mm [0.51 in] deep

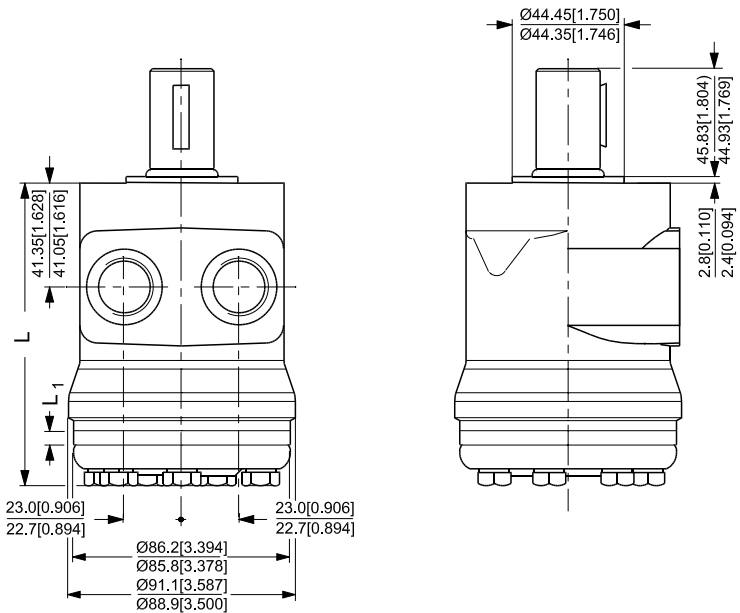


151-1891.10

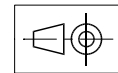
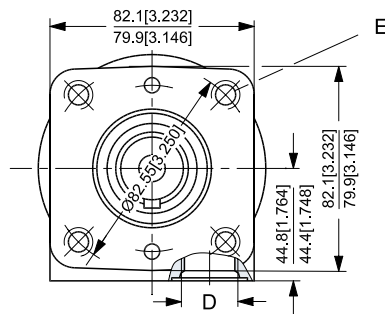
Dimensions

Side port version with square mounting flange (C-flange).
 Port thread version.

Type	L mm [in]	L ₁ mm [in]
DH 36	119.7 [4.71]	5.9 [0.23]
DH 50	120.3 [4.74]	6.5 [0.26]
DH 80	124.2 [4.89]	10.4 [0.41]
DH 100	126.8 [4.99]	13.0 [0.51]
DH 125	130.5 [5.14]	16.7 [0.66]
DH 160	134.6 [5.30]	20.8 [0.82]
DH 200	139.8 [5.50]	26.0 [1.02]
DH 250	146.3 [5.76]	32.5 [1.28]
DH 315	154.7 [6.09]	40.9 [1.61]
DH 400	165.8 [6.53]	52.0 [2.05]



- D: 7/8 - 14 UNF;
 16.7 mm [0.66 in] deep
 or 1/2 - 14 NPTF
- E: 3/8 - 16 UNC;
 15 mm [0.59 in] deep
 (4-off)

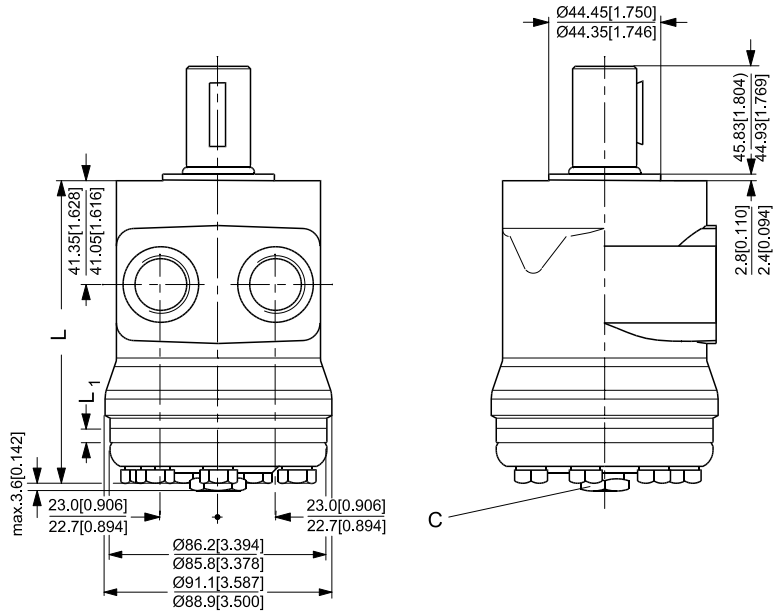


151-1879.10

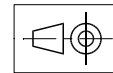
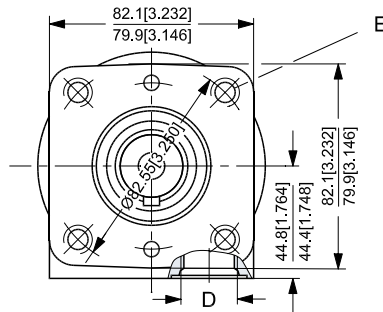
Dimensions

Side port version with square mounting flange (C-flange).
 With drain connection
 Port thread version.

Type	L mm [in]	L ₁ mm [in]
DH 36	119.7 [4.71]	5.9 [0.23]
DH 50	120.3 [4.74]	6.5 [0.26]
DH 80	124.2 [4.89]	10.4 [0.41]
DH 100	126.8 [4.99]	13.0 [0.51]
DH 125	130.5 [5.14]	16.7 [0.66]
DH 160	134.6 [5.30]	20.8 [0.82]
DH 200	139.8 [5.50]	26.0 [1.02]
DH 250	146.3 [5.76]	32.5 [1.28]
DH 315	154.7 [6.09]	40.9 [1.61]
DH 400	165.8 [6.53]	52.0 [2.05]



- C: 7/16 - 20 UNF,
12 mm [0.47 in] deep
- D: 7/8 - 14 UNF,
16.7 mm [0.66 in] deep
- E: 3/8 - 16 UNC,
15 mm [0.59 in] deep
(4-off)

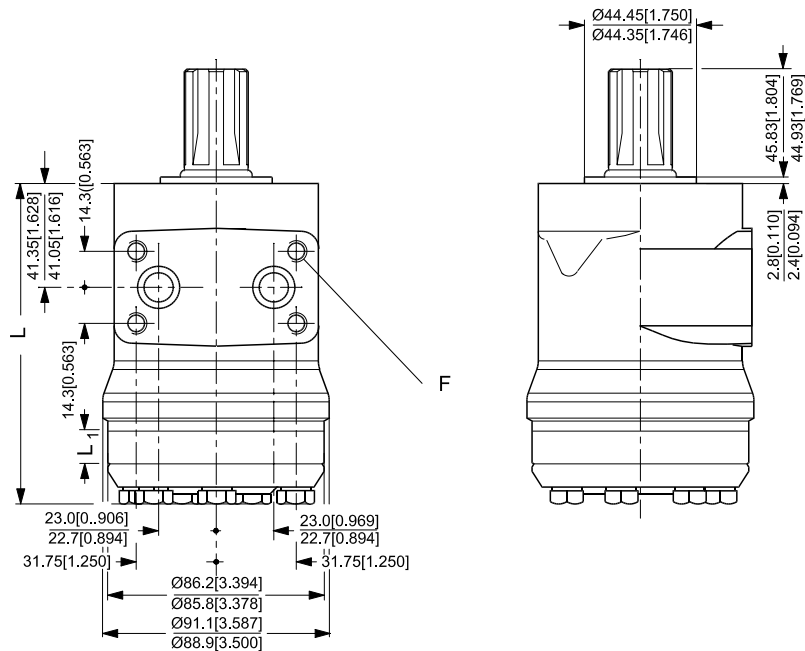


151-1892.10

Dimensions

Side port version with square mounting flange (C-flange).
Manifold version.

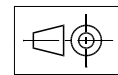
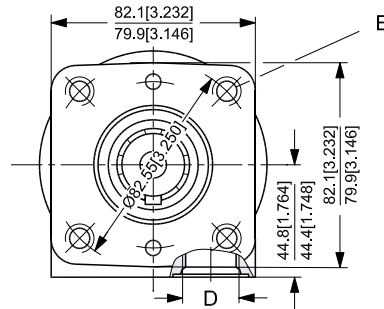
Type	L mm [in]	L ₁ mm [in]
DH 36	119.7 [4.71]	5.9 [0.23]
DH 50	120.3 [4.74]	6.5 [0.26]
DH 80	124.2 [4.89]	10.4 [0.41]
DH 100	126.8 [4.99]	13.0 [0.51]
DH 125	130.5 [5.14]	16.7 [0.66]
DH 160	134.6 [5.30]	20.8 [0.82]
DH 200	139.8 [5.50]	26.0 [1.02]
DH 250	146.3 [5.76]	32.5 [1.28]
DH 315	154.7 [6.09]	40.9 [1.61]
DH 400	165.8 [6.53]	52.0 [2.05]



D: 2 × Ø17.48 mm [0.69 in]

E: ³/₈ - 16 UNC;
15 mm [0.59 in] deep
(4 off)

F: 4 × ⁵/₁₆ - 18 UNC;
13 mm [0.51 in] deep



151-1880.10