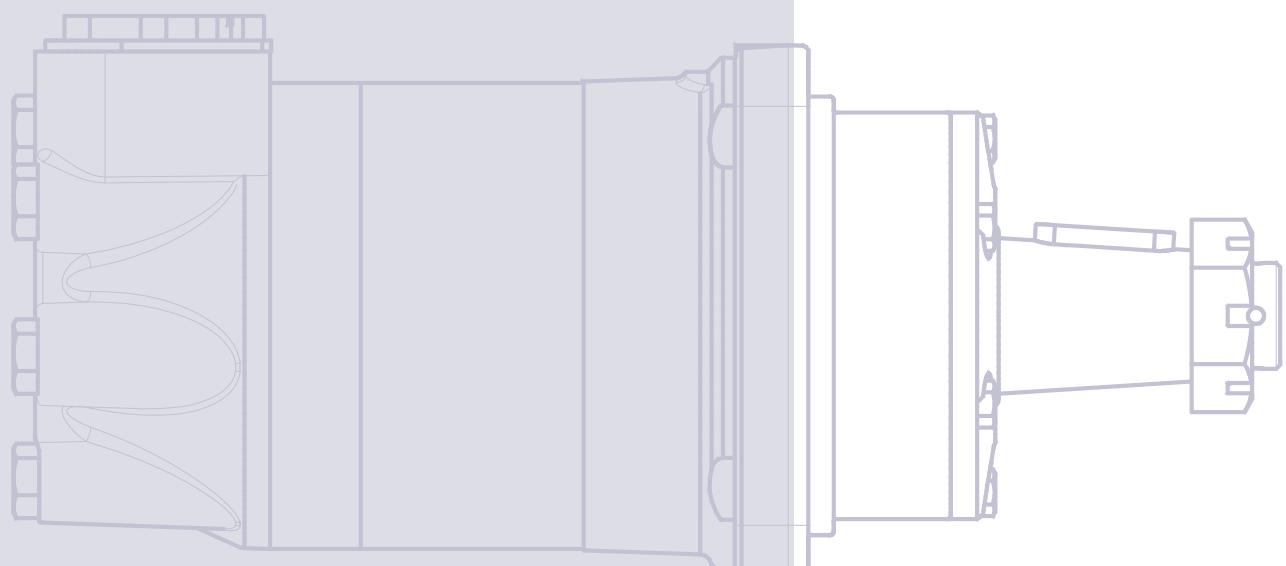




TMK, TMKW and
TMK FL
Orbital Motors

Technical
Information



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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drawing: 151-1959 FA



TMK, TMKW and TMK FL Technical Information A Wide Range of Orbital Motors

A Wide Range of Orbital Motors (continued)

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. Adoptions 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

Planetary gears

Sauer-Danfoss complements the motor range with a complete programme of planetary gears adapted to suit. The combination of motors and gears makes it possible to obtain smooth running at fractional speeds and with torques up to 650 000 Nm [5 800 000 lbf•in].

The Sauer-Danfoss orbital 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 subcatalogues:

- General information on Sauer-Danfoss orbital 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, 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: TMK
- 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.

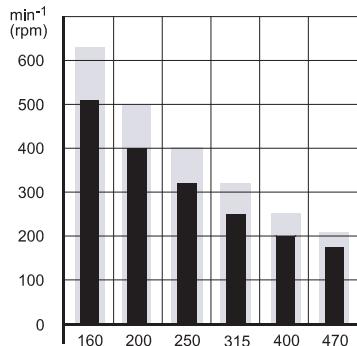
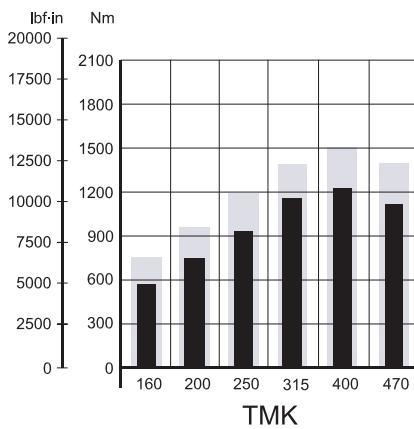
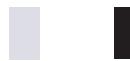


TMK, TMKW and TMK FL

Technical Information

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Speed and Torque
Max. speed

Max. torque

TMK


151-2053.10

Intermittent values

Continuous values

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.

- **TMK** can be found on pages 14 - 16.

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](#)" DHMH.PK.100.G2.02 520L0232.

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	Standard shaft seal	Drain connection	Check valve	Main type designation
Magneto	Ø3.25 in	Ø 4.187 in	Cyl 1.25 in	1 1/16 - 12 UN	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	Yes	Yes	TMK
Magneto	Ø 3.25 in	Ø 4.187 in	Spl. 1.25 in	1 1/16 - 12 UN	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	Yes	Yes	TMK
Magneto	Ø 3.25 in	Ø 4.187 in	Tap. 1.25 in	1 1/16 - 12 UN	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	Yes	Yes	TMK
SAE - C	Ø 5 in	Ø 6.375 in	Cyl 1.25 in	1 1/16 - 12 UN	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	Yes	Yes	TMK
SAE - C	Ø 5 in	Ø 6.375 in	Spl. 1.25 in	1 1/16 - 12 UN	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	Yes	Yes	TMK
SAE - C	Ø 5 in	Ø 6.375 in	Tap. 1.25 in	1 1/16 - 12 UN	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	Yes	Yes	TMK
SAE - C	Ø 5 in	Ø 6.375 in	Tap. 1.5 in	1 1/16 - 12 UN	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	Yes	Yes	TMK
SAE - C	Ø 5 in	Ø 6.375 in	Tap. 1.625 in	1 1/16 - 12 UN	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	Yes	Yes	TMK
Wheel	Ø 4.25 in	Ø 5.8 in	Tap. 1.5 in	1 1/16 - 12 UN	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	Yes	No	TMKW
	Ø 5 in			7/8 - 14 UNF	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Yes	No	TMKW
Brake standard	Ø 5.5 in (only rear)	Ø 6.375 in	Tap. 1.5 in	1 1/16 - 12 UN	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	Yes	No	TMK FL
				7/8 - 14 UNF	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Yes	No	TMK FL

Function diagram – see page : →

Features available (options)

Shaft options: Splined 1.5 in shaft
Cyl. 40 mm shaft (not brake version)

Port option: Side port G 3/4
End port G 1/2

Check valves
Flushing valves with different flushing flow

Motors are painted black



TMK, TMKW and TMK FL
Technical Information
Code Numbers

Code Numbers

Displacement (cm3)						Technical data - page	Dimensions - page
160	200	250	315	400	470		
151F6060	151F6061	151F6062	151F6063	151F6064	151F6065	8	20
151F6050	151F6051	151F6052	151F6053	151F6054	151F6055	8	20
151F6070	151F6071	151F6072	151F6073	151F6074	151F6075	8	20
151F6130	151F6131	151F6132	151F6133	151F6134	151F6135	8	21
151F6120	151F6121	151F6122	151F6123	151F6124	151F6125	8	21
151F6140	151F6141	151F6142	151F6143	151F6144	151F6145	8	21
151F6090	151F6091	151F6092	151F6093	151F6094	151F6095	8	21
151F6080	151F6081	151F6082	151F6083	151F6084	151F6085	8	21
151F6010	151F6011	151F6012	151F6013	151F6014	151F6015	8	22
151F6030	151F6031	151F6032	151F6033	151F6034	151F6035	8	23
11008903	11008904	11008905	11008906	11008907	11008908	8	24
11008909	11008910	11008911	11008912	11008913	11008914	8	25
→ 14	14	15	15	16			



TMK, TMKW and TMK FL
Technical Information
Technical Data

Type		TMK TMKW TMK FL	TMK TMKW TMK FL	TMK TMKW TMK FL	TMK TMKW TMK FL	TMK TMKW TMK FL	TMK TMKW TMK FL
Motor size		160	200	250	315	400	470
Geometric displacement	cm ³ [in ³]	158.0 [9.64]	201.5 [12.30]	252.2 [15.39]	315.3 [19.23]	397.2 [24.24]	471.1 [28.75]
Max. Speed	min ⁻¹ [rpm]	cont. int. ¹⁾	505 630	400 500	320 400	255 315	200 250
Max. Torque*		cont. int. ¹⁾	570 725 [5045] [6415]	720 920 [6370] [8140]	910 1070 [8055] [9470]	1050 1310 [9295] [11595]	1070 1400 [9470] [12390]
Max. Output	kW [hp]	cont. int. ¹⁾	22.0 27.0 [29.5] [36]	22.0 27.0 [29.5] [36]	21.0 25.0 [28] [33.5]	20.0 23.5 [27] [31.5]	17.5 22.0 [23.5] [29.5]
Max. pressure drop *	bar [psi]	cont. int. ¹⁾	250 325 [3625] [4715]	250 325 [3625] [4715]	250 300 [3625] [4350]	250 300 [2900] [4350]	200 250 [160] [2900]
Max. oil flow	l/min [US gal/min]	cont. int. ¹⁾	80 100 [21.1] [26.4]	80 100 [21.1] [26.4]	80 100 [21.1] [26.4]	80 100 [21.1] [26.4]	80 100 [21.1] [26.4]
Max. starting pressure with unloaded shaft	bar [psi]		8 [100]	8 [100]	7 [100]	7 [100]	7 [100]
Min. starting torque		at max. press. drop cont.: N·m [lbf·in]	430 [3805]	540 [4780]	680 [6020]	790 [6990]	800 [7080]
		at max. press. drop int. ¹⁾ : N·m [lbf·in]	545 [4825]	690 [6105]	800 [7080]	985 [8720]	1050 [9290]

Type		Max. inlet pressure		Max. return pressure with drain line
TMK 160 - 470	bar [psi] cont.	250 [3625]	bar [psi] cont.	140 [2030]
	bar [psi] max.	350 [5075]	bar [psi] int. ¹⁾	175 [2540]
			bar [psi] peak ²⁾	210 [3045]

*Max. torque for shaft type	Tap. 1.25 in	Splined 1.25 in	Cyl. 1.25 in
	N·m [lbf·in]	900 [8000]	900 [8000]
Max. values apply for applications where there is no external radial load. If radial load is present, please contact Sauer-Danfoss for evaluation.			

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.

For max. permissible combination of flow and pressure, see function diagram for actual motor.

Technical Data for Parking Brake Motor **TMK FL**

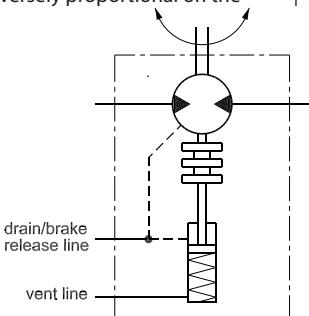
Technical data for brake motor TMK FL		
Holding torque ¹⁾	Nm [lbf.in]	1050 [9295]
Min. release pressure ²⁾	bar [psi]	15 [215]
Max. pressure in drain/brake line	bar [psi]	30 [435]

¹⁾ This brake is to be used only as a passive parking brake. It may not be used for dynamic braking.

When release pressure²⁾ is greater than zero, the holding torque depends inversely proportional on the actual release pressure.

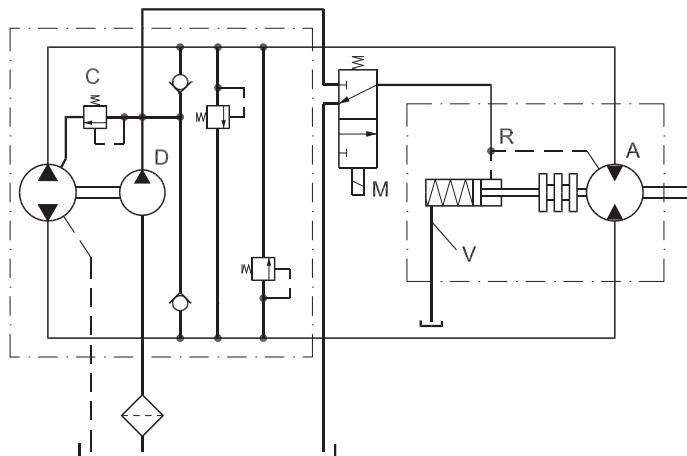
At 0 bar - holding torque = 1050 Nm [9295 lbf.in]
At 15 bar [215 psi] or more - holding torque = 0 Nm

2) The release pressure is the difference between the pressure in the drain/brake release line and the pressure in the vent line. The vent port must always be connected to tank. The brake will be fully released at 15 bar [215 psi].



151-2009.11

Schematic Diagram



151-2018 13

The drain/release port on the TMK FL motor must never remain plugged or be connected to the system A or B pressures, since the brake is a low pressure device. A common solution for controlling the brake is to use a two position valve to connect the drain port to hydrostatic charge pressure (brake released), or to reservoir pressure (brake holding). The vent port must always be connected to tank.

See the above schematic for details.

A. Motor

C: Charge pressure relief valve
(setting min 15 bar [215 psi])

D: Charge pump

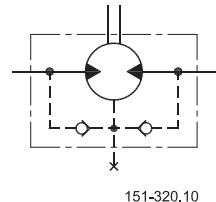
M: Brake release valve

R: Drain and brake release port
V: Vent line

Max. Permissible Shaft Seal Pressure

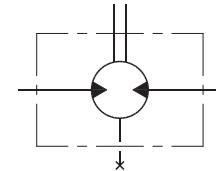
TMK, TMKW and TMK FL with use of drain connection

The shaft seal pressure equals the pressure in the drain line.



TMK with check valves and without use of drain connection:

The pressure on the shaft seal never exceeds the pressure in the return line.

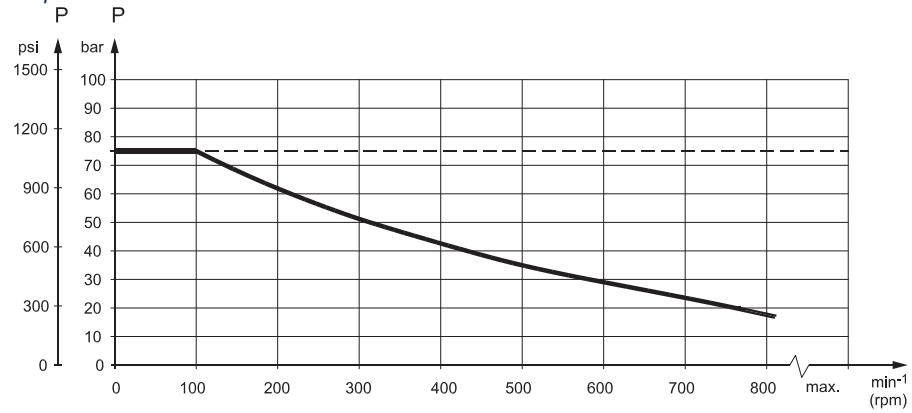


TMKW / TMK FL without check valves and without use of drain connection:

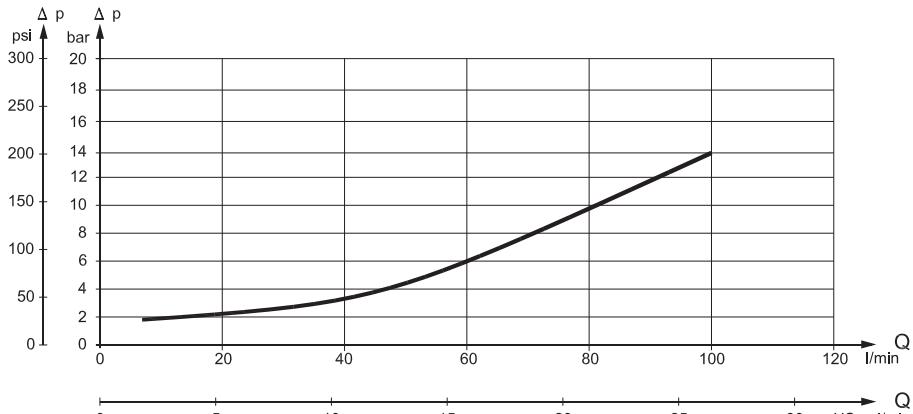
The shaft seal pressure equals the average of input pressure and return pressure.

TMK FL must always have a drainline.

Max. pressure on shaft seal



Pressure Drop in Motor

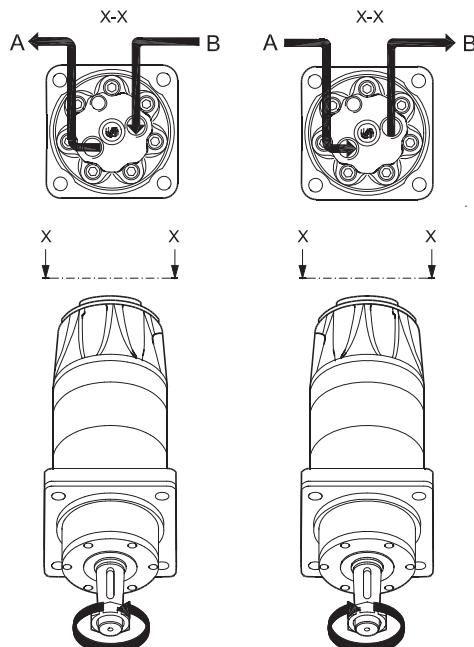


The curve applies to an unloaded motor shaft and an oil viscosity of 35 mm²/s (165 SUS)

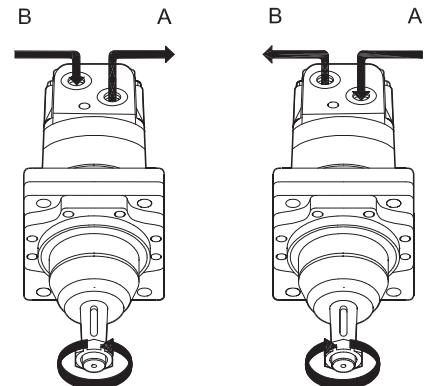
Oil Flow in Drain Line

The table below 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]
160 [2320]	20 [100]	1.7 [0.45]
	35 [165]	1.2 [0.32]
325 [4713]	20 [100]	3.5 [0.92]
	35 [165]	2.5 [0.66]

Direction of Shaft Rotation


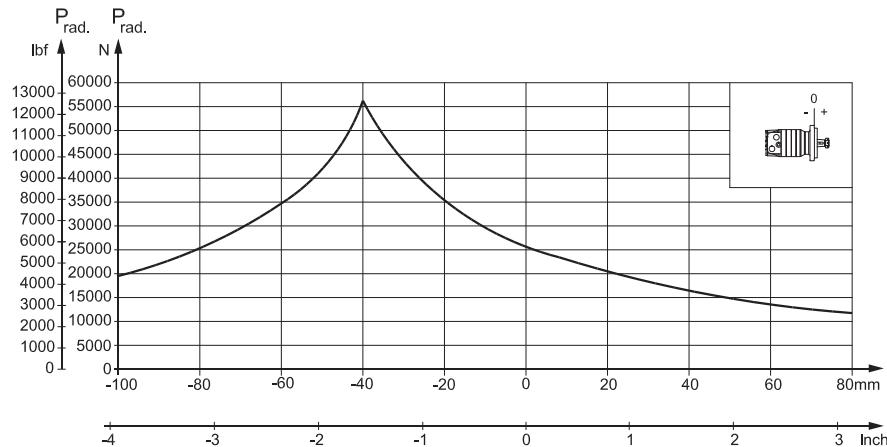
151-2008.11



151-2006.11

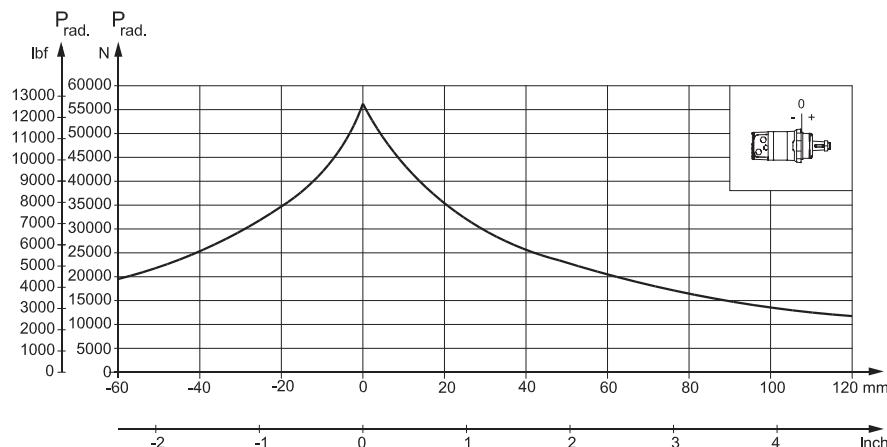
**Permissible Shaft Load
for TMKW**

Mounting flange:
Magneto, SAE-C



151-2059.10

Mounting flange:
Wheel



151-1955.10

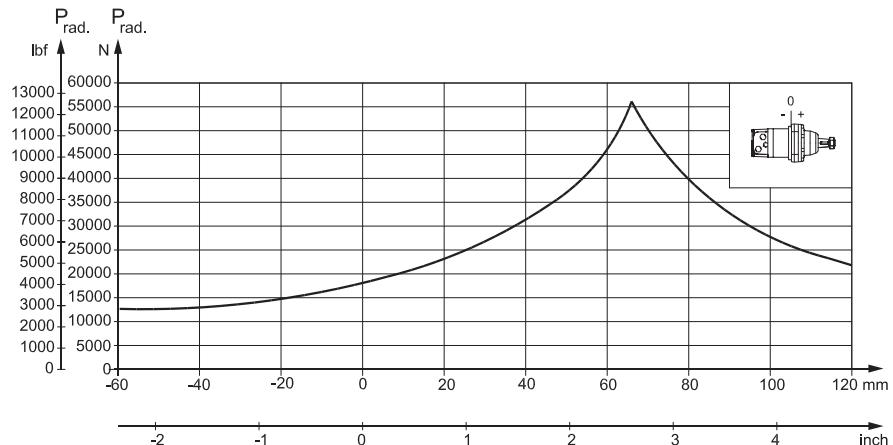
Permissible radial shaft load

The output shaft runs in tapered roller bearings that permit high axial and radial forces.

The permissible radial load on the shaft is shown for an axial load of 0 N as a function of the distance from the mounting flange to the point of load application.

The curve is based on B_{10} Bearing life (2000 hours or 12 000 000 shaft revolutions at 100 min^{-1}) at rated output torque, when mineral-based hydraulic oil with a sufficient content of anti-wear additives, is used.

**Permissible Shaft Load
for TMK FL**



151-1956.10

Permissible radial shaft load

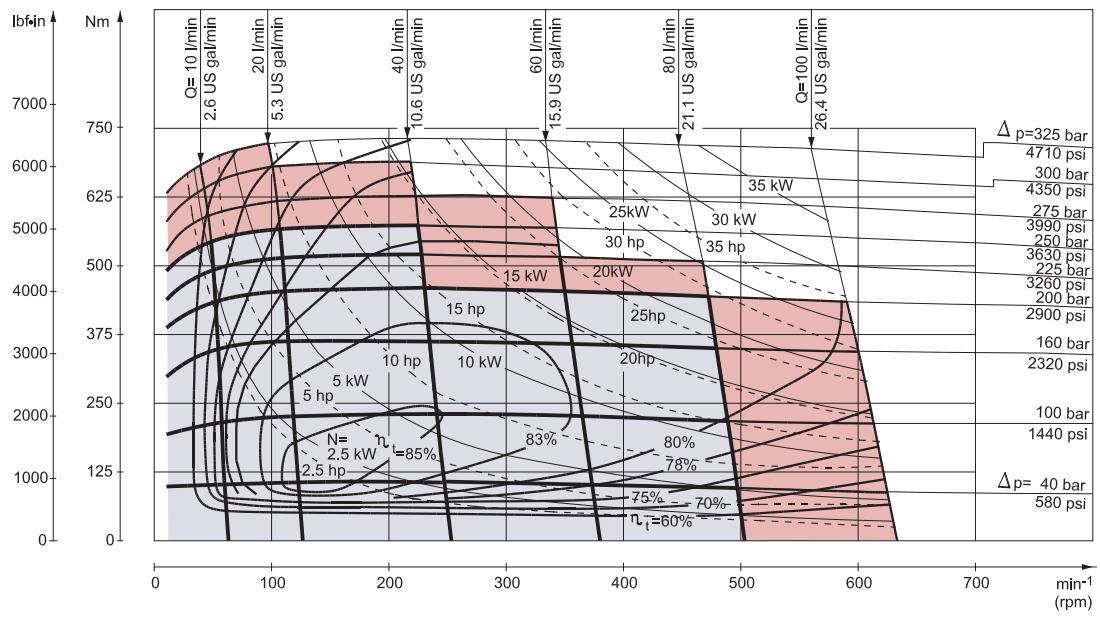
The output shaft runs in tapered roller bearings that permit high axial and radial forces.

The permissible radial load on the shaft is shown for an axial load of 0 N as a function of the distance from the mounting flange to the point of load application.

The curve is based on B_{10} Bearing life (2000 hours or 12 000 000 shaft revolutions at 100 min^{-1}) at rated output torque, when mineral-based hydraulic oil with a sufficient content of anti-wear additives, is used.

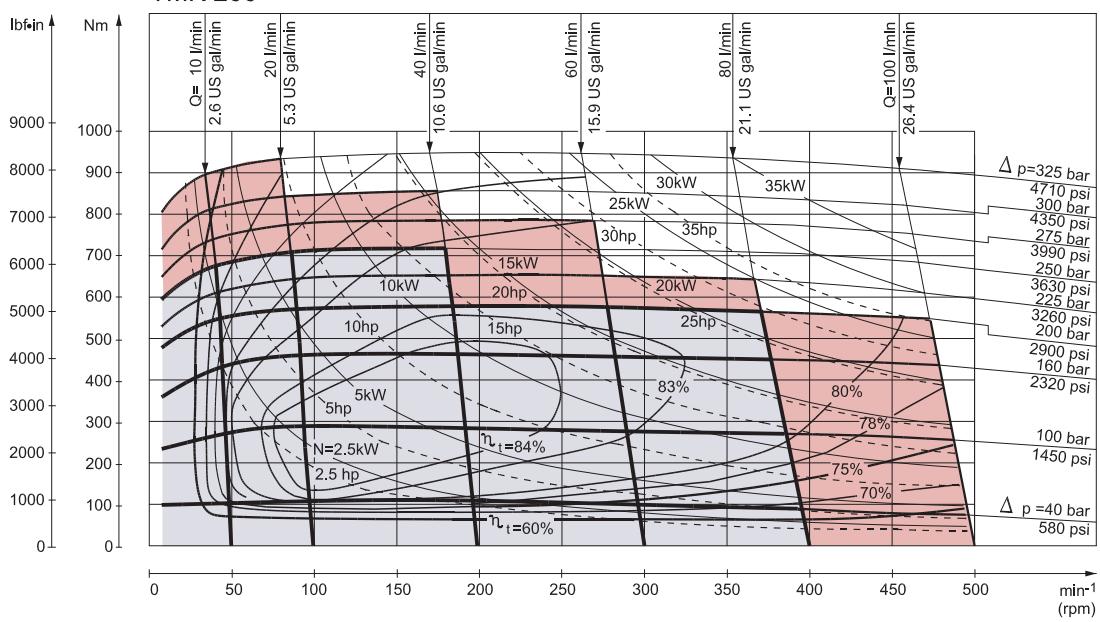
Function Diagrams

TMK 160



151-2013.10

TMK 200



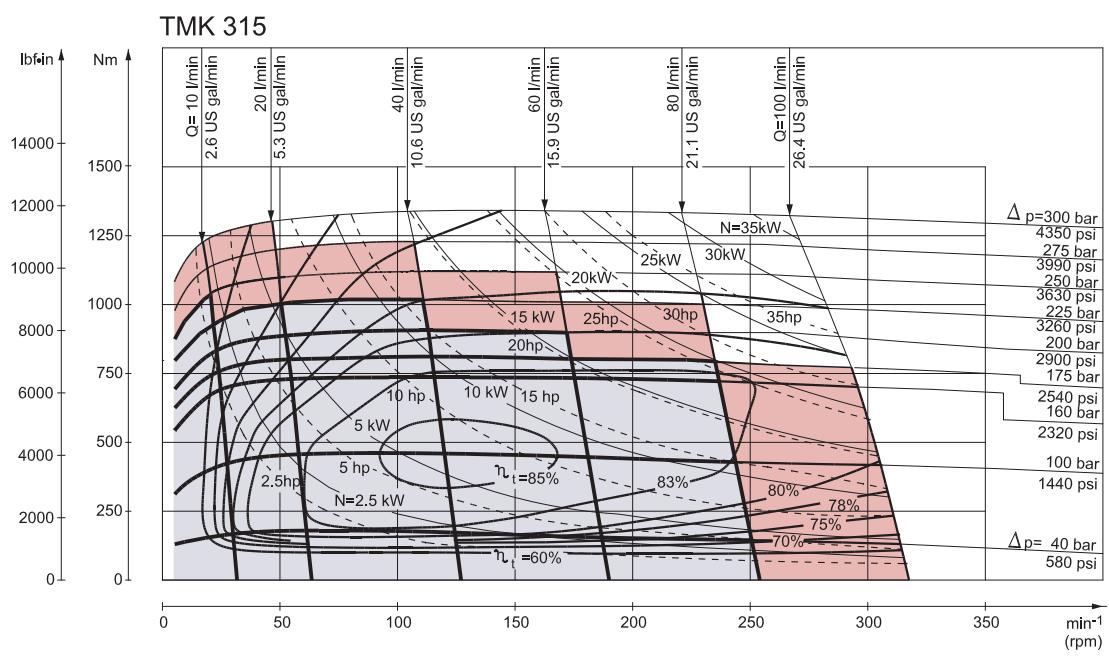
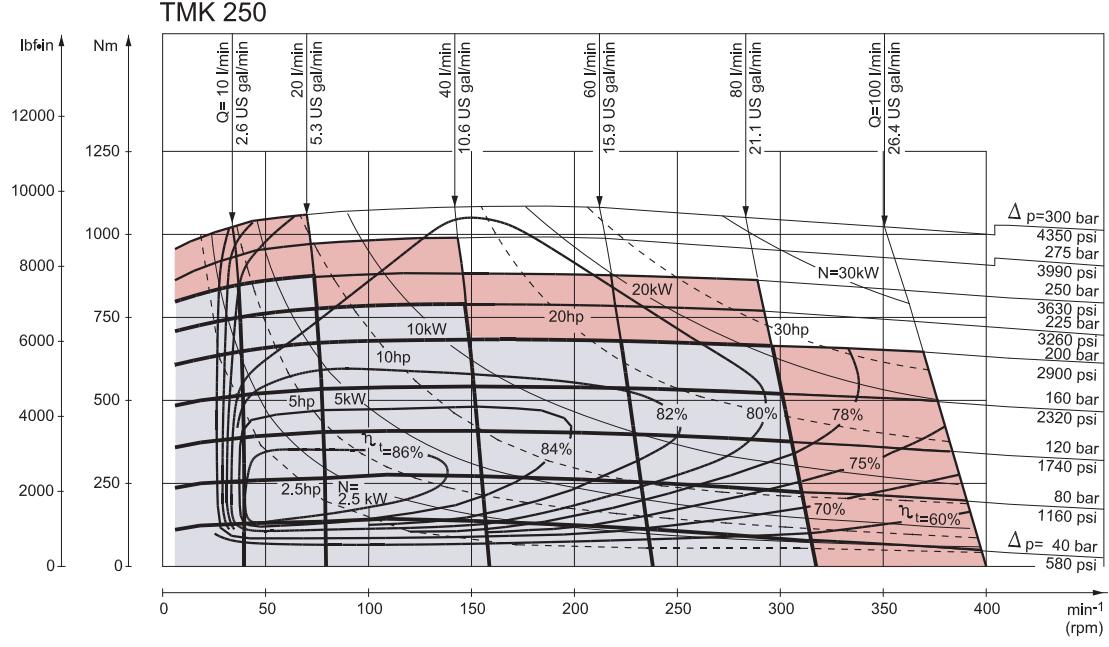
151-2014.10

Explanation of function diagram use, basis and conditions can be found on page 5.

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

Intermittent pressure drop and oil flow must not occur simultaneously.

**Function Diagrams
(continued)**

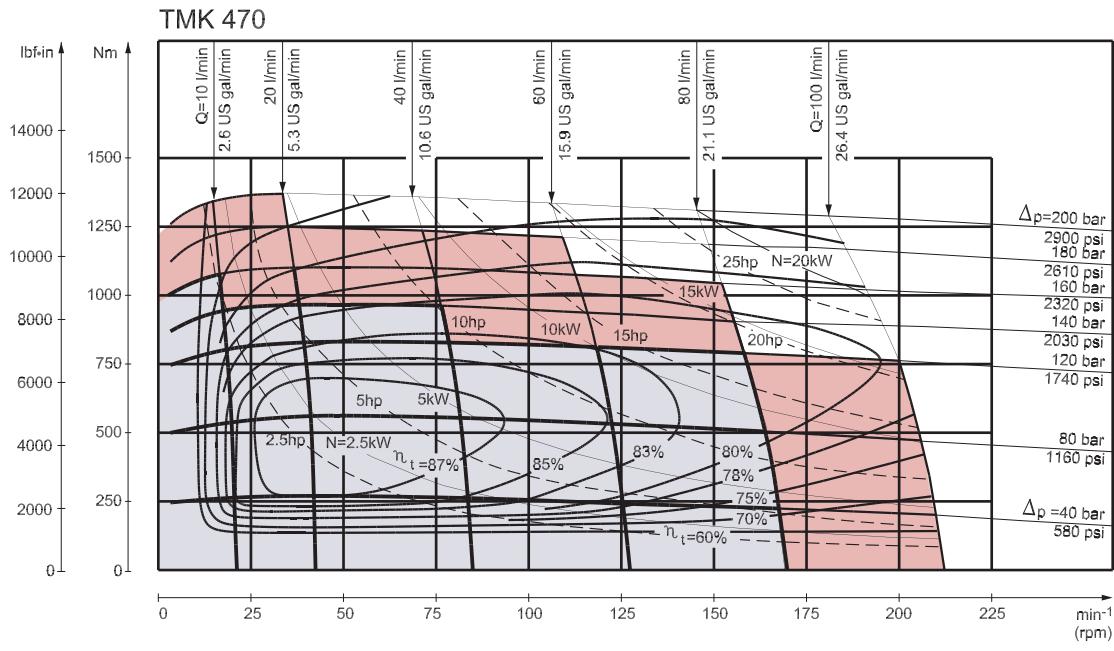
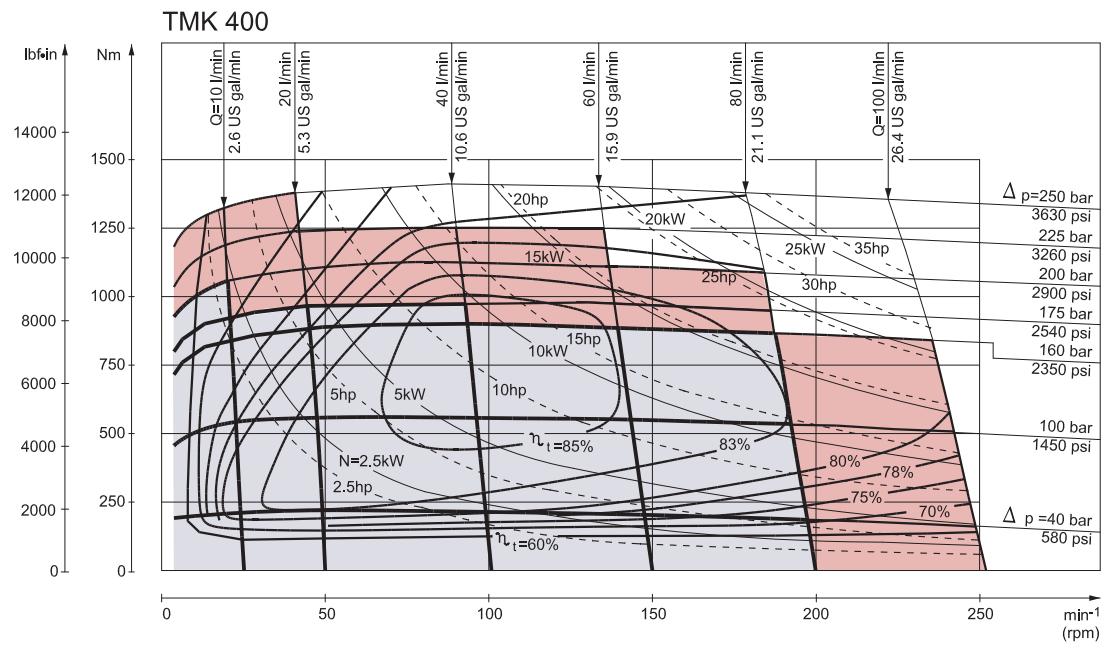


Explanation of function diagram use, basis and conditions can be found on page 5.

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

Intermittent pressure drop and oil flow must not occur simultaneously.

**Function Diagrams
(continued)**



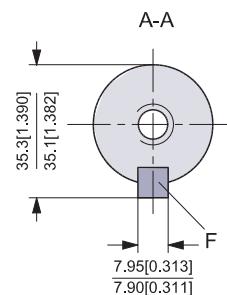
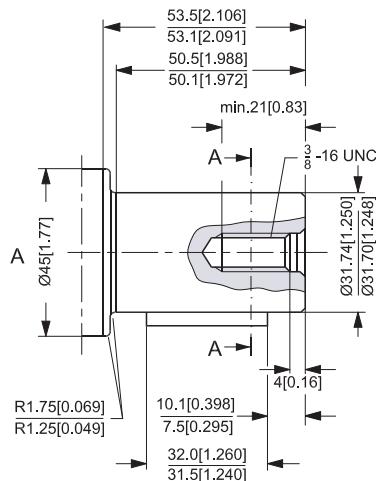
Explanation of function diagram use, basis and conditions can be found on page 5.

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

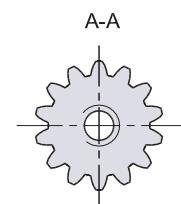
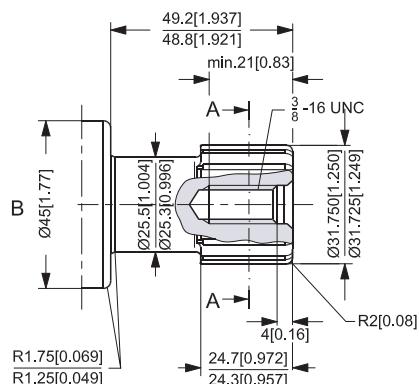
Intermittent pressure drop and oil flow must not occur simultaneously.

Shaft Versions

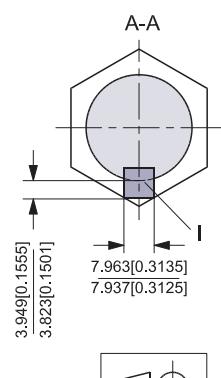
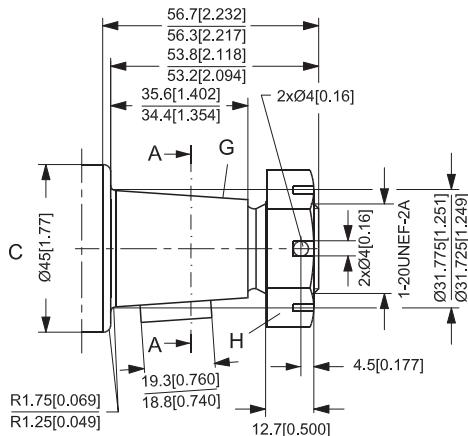
- A: Cylindrical shaft 1.25 in
 F: Parallel key
 $5/16 \times 5/16 \times 1 \frac{1}{4}$ in
 SAE J744



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



- C: Tapered shaft 1.25 in
 G: Cone 1 : 8
 SAE J501
 H: 1 - 20 UNEF
 Across flats: 1 7/16 in
 Tightening torque:
 $450 \pm 10 \text{ N}\cdot\text{m}$
 $[3980 \pm 85 \text{ lbf}\cdot\text{in}]$
 I: Parallel key
 $5/16 \times 5/16 \times 3/4$ in
 SAE J501



151-2057.10

TMK, TMKW and TMK FL
Technical Information
Shaft Versions

D: Tapered shaft 1.5 in

J: Cone 1 : 8

SAE J501

K: 1 - 20 UNEF

Across flats: 1 $\frac{7}{16}$ in

Tightening torque:

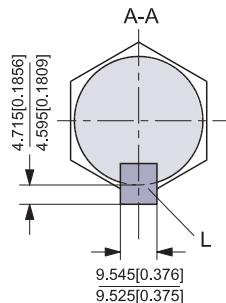
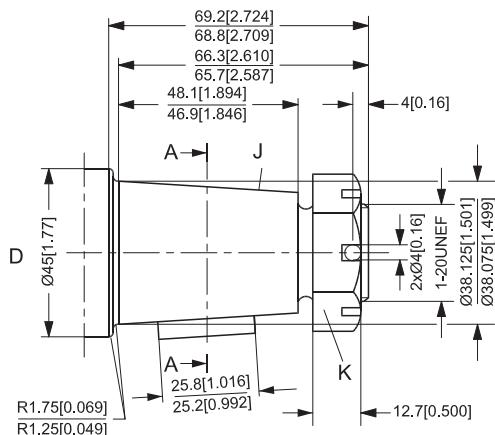
450 ± 10 N·m

[3980 ± 85 lbf·in]

L: Parallel key

$\frac{3}{8} \times \frac{3}{8} \times 1$ in

B.S. 46



E: Tapered shaft 1.625 in

M: Cone 1 : 8

SAE J501

N: 1 $\frac{1}{4}$ - 18 UNEF

Across flats: 2 $\frac{3}{16}$ in

Tightening torque:

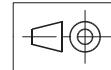
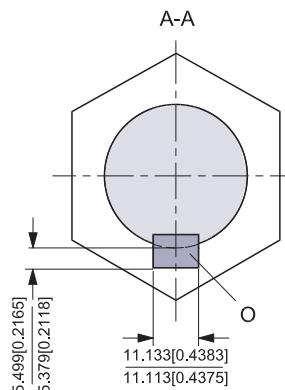
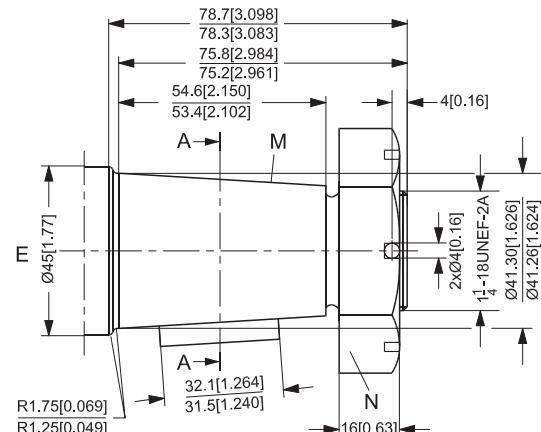
500 ± 10 N·m

[4425 ± 85 lbf·in]

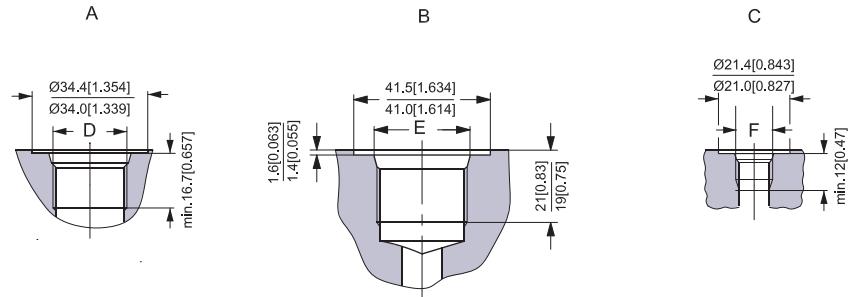
O: Parallel key

$\frac{7}{16} \times \frac{7}{16} \times 1 \frac{1}{4}$ in

B.S. 46



151-2058.10

Port Thread Versions


A: UNF Main port
 D: 7/8 - 14 UNF
 o-ring boss port

B: UN Main port
 E: 1 1/16 – 12 UN
 o-ring boss port

C: UNF Drain/release
 port
 F: 7/16 - 20 UNF
 o-ring boss port

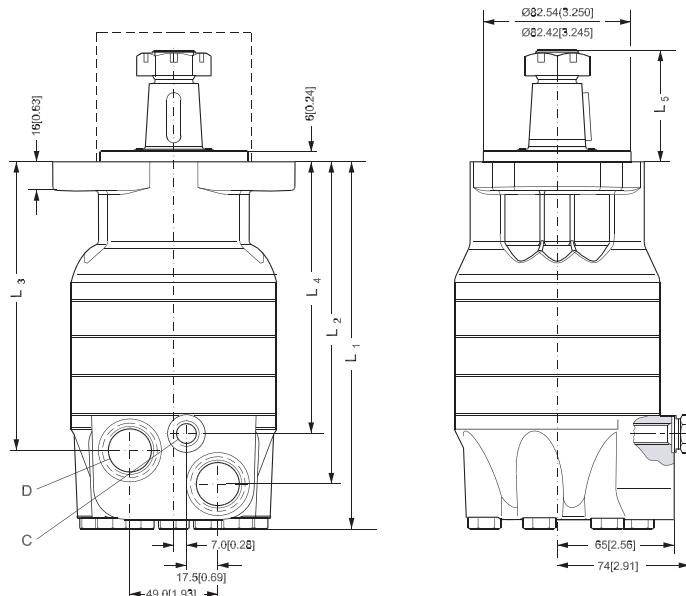
Dimensions

TMK with Magneto flange

Type	L ₁ mm [in]	L ₂ mm [in]	L ₃ mm [in]	L ₄ mm [in]
TMK 160	204.6 [8.06]	179.6 [7.07]	160.8 [6.33]	151.4 [5.96]
TMK 200	210.6 [8.29]	185.6 [7.31]	166.8 [6.57]	157.4 [6.20]
TMK 250	217.6 [8.57]	192.6 [7.58]	176.8 [6.84]	164.4 [6.47]
TMK 315	226.3 [8.91]	201.3 [7.93]	182.5 [7.19]	173.1 [6.81]
TMK 400	237.6 [9.35]	212.6 [8.37]	193.8 [7.63]	184.4 [7.26]
TMK 470	247.8 [9.76]	222.8 [8.77]	204.0 [8.03]	194.6 [7.66]

C: Drain connection 7/16 - 20 UNF

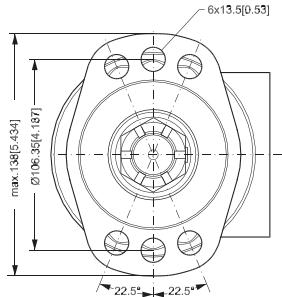
D: 2 x 1 1/16 - 12 UN



Output shaft	L ₅	
	mm	[in]
Cyl. 1.25 in	58.8	[2.31]
Spl. 1.25 in	56.0	[2.20]
Tap. 1.25 in	62.0	[2.44]

-----Not Painted

The stated dimensions are without paint

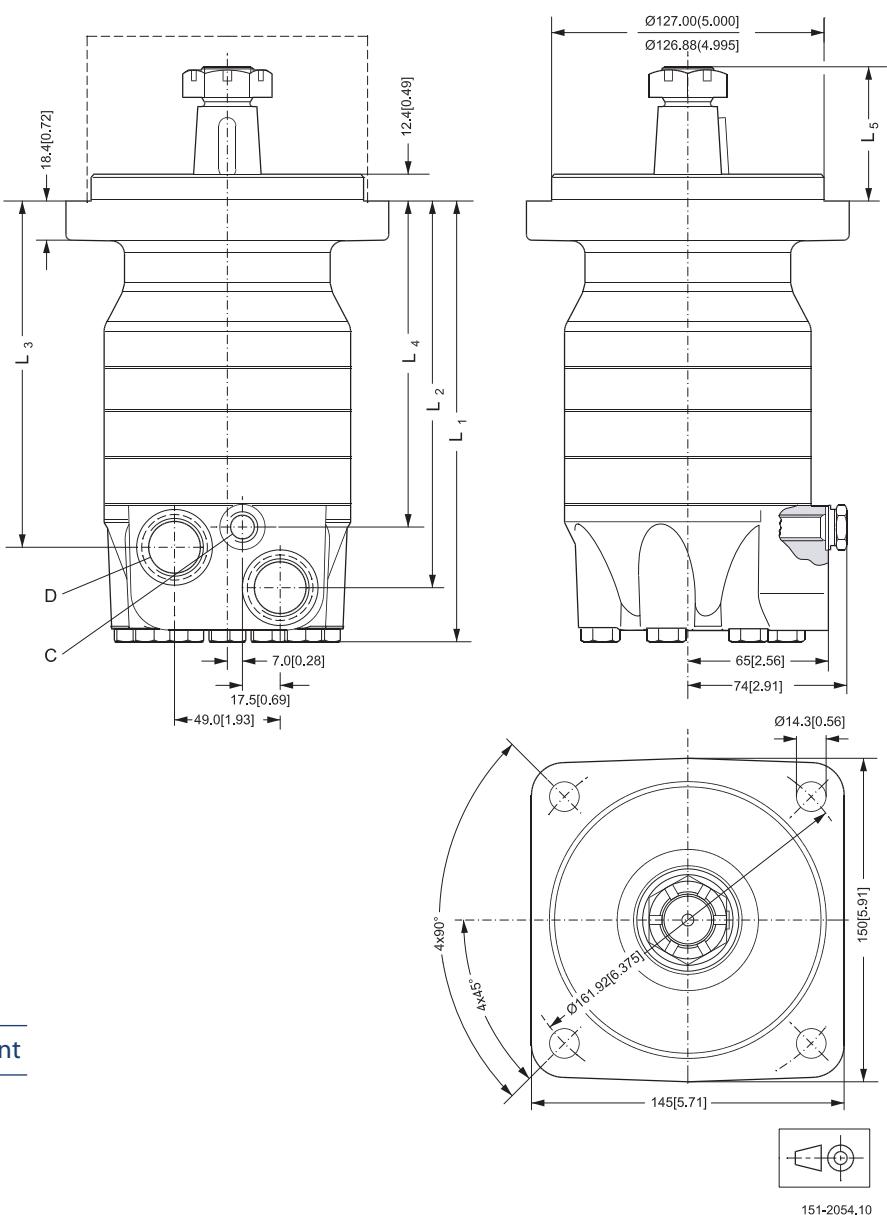


151-2055.11

Dimensions

Type	L ₁ mm [in]	L ₂ mm [in]	L ₃ mm [in]	L ₄ mm [in]
TMK 160	204.5 [8.05]	179.4 [7.06]	160.7 [6.33]	151.3 [5.96]
TMK 200	210.5 [8.29]	185.4 [7.30]	166.7 [6.56]	157.3 [6.19]
TMK 250	217.5 [8.56]	192.4 [7.57]	173.7 [6.84]	164.3 [6.47]
TMK 315	226.2 [8.91]	201.1 [7.92]	182.4 [7.18]	173.0 [6.81]
TMK 400	237.5 [9.35]	212.4 [8.36]	193.7 [7.63]	184.3 [7.26]
TMK 470	247.7 [9.75]	222.6 [8.76]	203.9 [8.03]	194.5 [7.66]

TMK with SAE-C flange



-----Not Painted

The stated dimensions are without paint

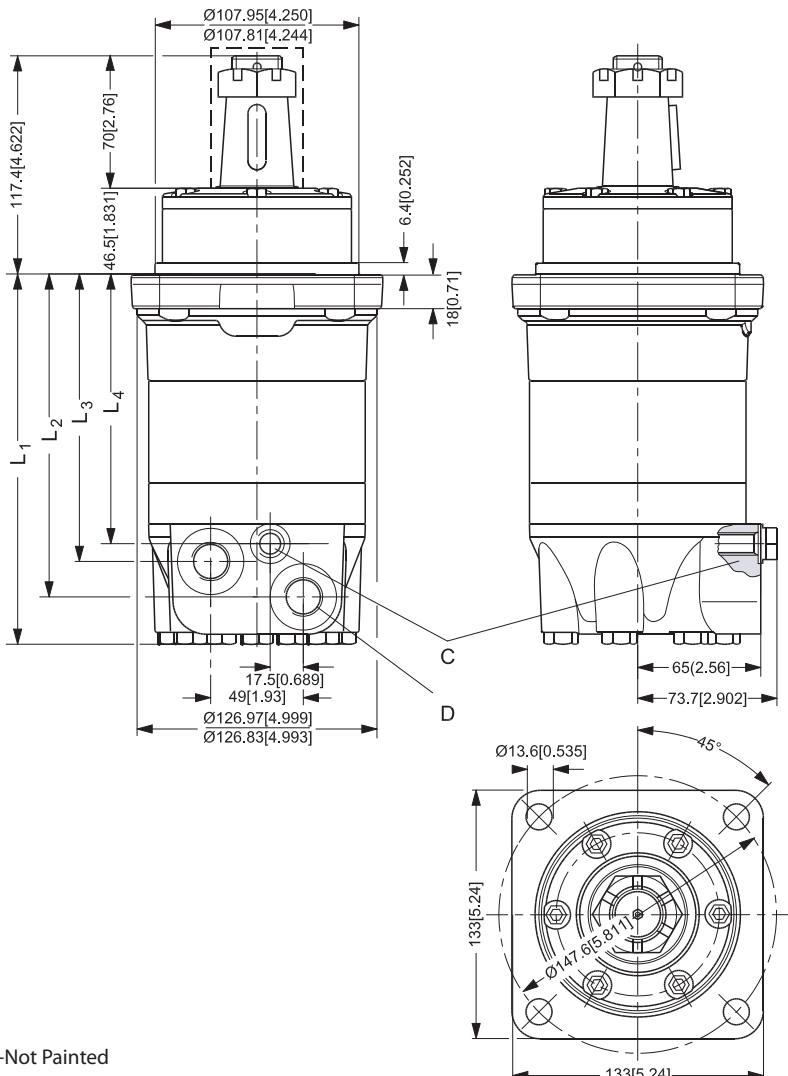
TMKW with side port and drain connection

Dimensions

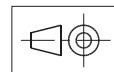
Type	L ₁ mm [in]	L ₂ mm [in]	L ₃ mm [in]	L ₄ mm [in]
TMKW 160	164.7 [6.48]	139.3 [5.48]	120.3 [4.74]	110.8 [4.36]
TMKW 200	170.7 [6.72]	145.3 [5.72]	126.3 [4.97]	116.8 [4.60]
TMKW 250	177.7 [7.00]	152.3 [6.00]	133.3 [5.25]	123.8 [4.87]
TMKW 315	186.4 [7.34]	161.0 [6.34]	142.0 [5.59]	132.5 [5.22]
TMKW 400	197.7 [7.78]	172.3 [6.78]	153.3 [6.00]	143.8 [5.66]
TMKW 470	207.9 [8.19]	182.5 [7.19]	163.5 [6.44]	154.0 [6.06]

C: Drain connection 7/16 - 20 UNF

D: 2 x 1 1/16 - 12 UN



The stated dimensions are without paint



151-1993.11

Dimensions
TMKW with end port and drain connection

Type	L mm [in]
TMKW 160	183.5 [7.2]
TMKW 200	189.5 [7.46]
TMKW 250	196.5 [7.74]
TMKW 315	205.2 [8.08]
TMKW 400	216.5 [8.52]
TMKW 470	226.7 [8.93]

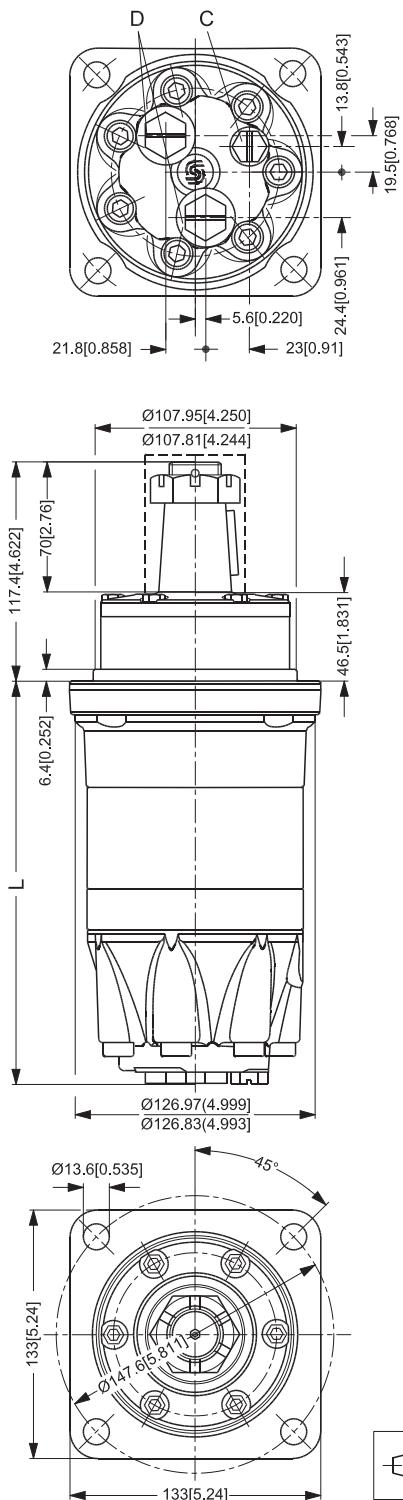
C: Drain connection

 $\frac{7}{16}$ - 20 UNF

D: $2 \times \frac{7}{8}$ - 14 UNF

-----Not Painted

The stated dimensions are without paint



151-1992.11

Dimensions

Type	L ₁ mm [in]	L ₂ mm [in]	L ₃ mm [in]	L ₄ mm [in]
TMK FL 160	125.2 [4.18]	100.2 [3.43]	81.2 [3.06]	71.2 [4.93]
TMK FL 200	131.2 [5.17]	106.2 [4.18]	87.2 [3.43]	77.7 [3.06]
TMK FL 250	138.2 [5.44]	113.2 [4.46]	94.2 [3.70]	84.7 [33.3]
TMK FL 315	146.9 [5.78]	121.9 [4.80]	102.9 [4.05]	93.4 [3.68]
TMK FL 400	158.2 [6.23]	133.2 [5.24]	114.2 [4.50]	104.7 [4.12]
TMK FL 470	168.4 [6.63]	143.4 [5.65]	124.4 [4.90]	114.9 [4.52]

C: Drain connection and brake release port $\frac{7}{16}$ - 20 UNF

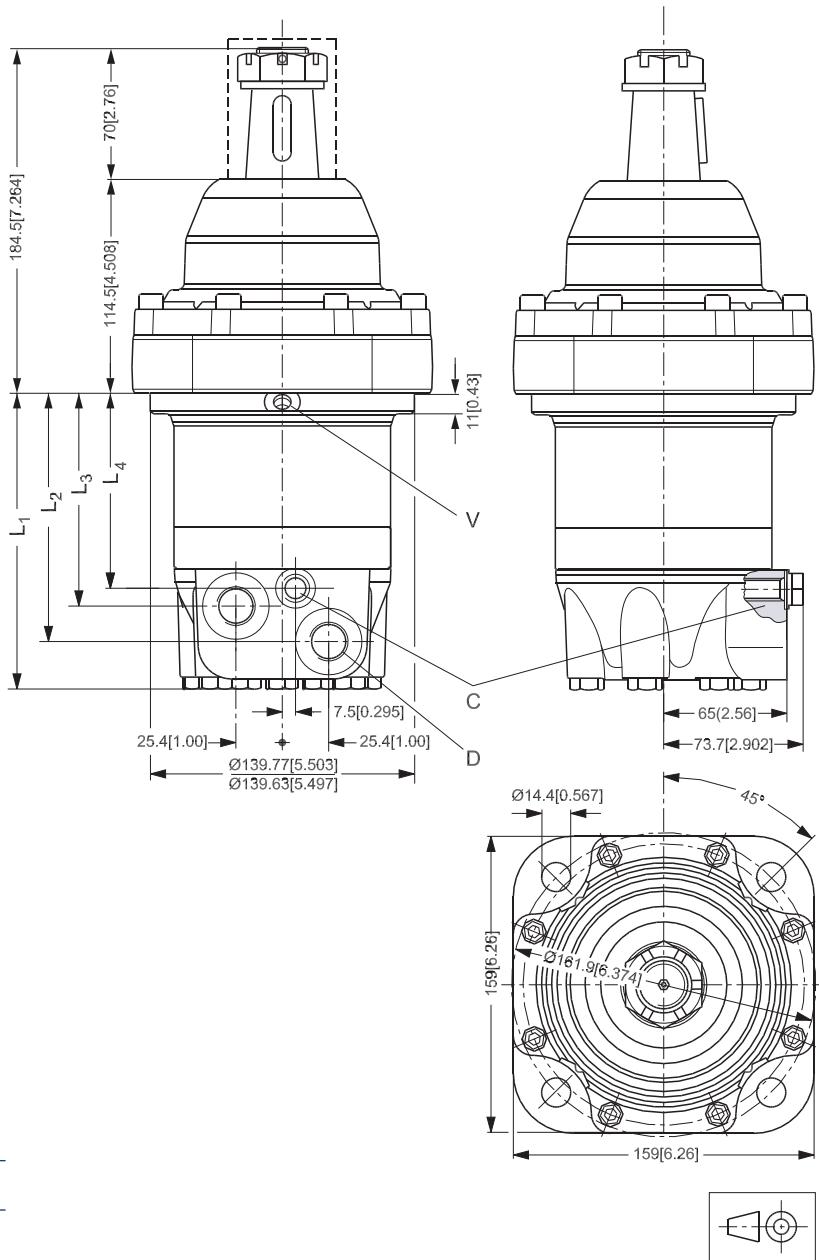
D: 2 x 1 $\frac{1}{16}$ - 12 UN

V: Vent port $\frac{7}{16}$ - 20 UNF

-----Not Painted

The stated dimensions are without paint

TMK FL with side port and drain connection



151-1994.12

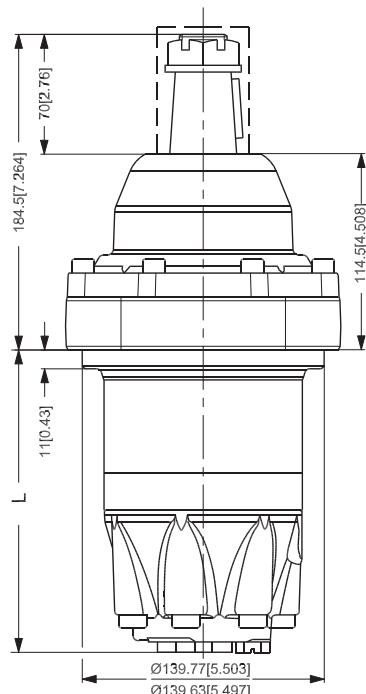
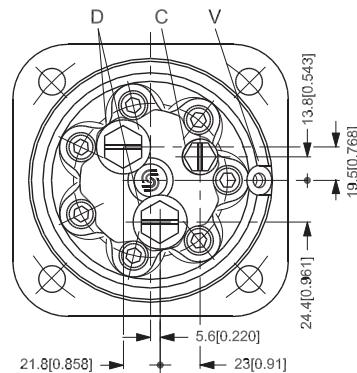
Dimensions

Type	L mm [in]
TMK FL 160	144.0 [5.67]
TMK FL 200	150.0 [5.91]
TMK FL 250	157.0 [6.18]
TMK FL 315	165.7 [6.52]
TMK FL 400	177.0 [6.97]
TMK FL 470	187.2 [7.37]

C: Drain connection and brake release port $\frac{7}{16}$ - 20 UNF

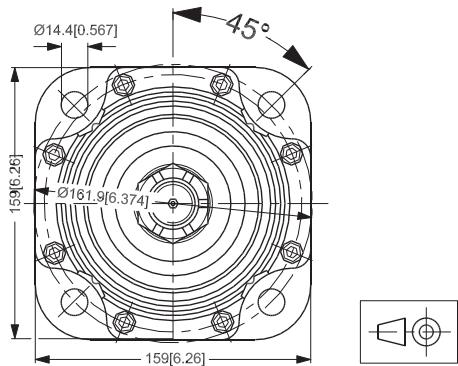
D: 2 x $\frac{7}{8}$ - 14 UNF

V: Vent port $\frac{7}{16}$ - 20 UNF

TMK FL with end port and drain connection


-----Not Painted

The stated dimensions are without paint



151-1991.12



TMK, TMKW and TMK FL
Technical Information
Weight of Motors

Weight of Motors

Code no	Weight	
	kg	[lb]
151F6010	16.0	[35.30]
151F6011	16.5	[36.40]
151F6012	17.0	[37.50]
151F6013	17.5	[38.60]
151F6014	18.0	[39.71]
151F6015	18.5	[40.80]
151F6030	16.0	[35.30]
151F6031	16.5	[36.40]
151F6032	17.0	[37.50]
151F6033	17.5	[38.60]
151F6034	18.0	[39.71]
151F6035	18.5	[40.80]
151F6050	14.0	[30.9]
151F6051	14.5	[32.0]
151F6052	15.0	[33.1]
151F6053	15.5	[34.2]
151F6054	16.0	[35.3]
151F6055	16.5	[36.4]
151F6060	14.1	[31.2]
151F6061	14.6	[32.3]
151F6062	15.1	[33.4]
151F6063	15.6	[34.5]
151F6064	16.1	[35.6]
151F6065	16.6	[36.7]
151F6070	14.2	[31.2]
151F6071	14.7	[32.3]
151F6072	15.2	[33.3]
151F6073	15.7	[34.5]
151F6074	16.2	[35.6]
151F6075	16.7	[36.7]
151F6080	17.2	[37.9]
151F6081	17.7	[39.0]
151F6082	18.2	[40.1]
151F6083	18.7	[41.2]
151F6084	19.2	[42.3]
151F6085	19.7	[43.4]
151F6090	16.9	[37.2]
151F6091	17.4	[38.3]
151F6092	17.9	[39.4]
151F6093	18.4	[40.5]
151F6094	18.9	[41.6]
151F6095	19.4	[42.7]
151F6120	16.5	[36.5]
151F6121	17.0	[37.6]
151F6122	17.5	[38.7]
151F6123	18.0	[39.8]
151F6124	18.5	[40.9]
151F6125	19.0	[42.0]
151F6130	16.7	[36.7]
151F6131	17.2	[37.8]
151F6132	17.7	[38.9]
151F6133	18.2	[40.0]
151F6134	18.7	[41.1]
151F6135	19.2	[42.2]
151F6140	16.7	[36.8]
151F6141	17.2	[37.9]
151F6142	17.7	[39.0]
151F6143	18.2	[40.1]
151F6144	18.7	[41.2]
151F6145	19.2	[42.3]
11008903	19.5	[43.0]
11008904	20.0	[44.1]
11008905	20.5	[45.2]
11008906	21.0	[46.3]
11008907	21.5	[47.4]
11008908	22.0	[48.5]
11008909	19.5	[43.0]
11008910	20.0	[44.1]
11008911	20.5	[45.2]
11008912	21.0	[46.3]
11008913	21.5	[47.4]
11008914	22.0	[48.5]



TMK, TMKW and TMK FL
Technical Information
Notes

Notes



Our Products

Open circuit axial piston pumps

Gear pumps and motors

Fan drive systems

Closed circuit axial piston pumps and motors

Bent axis motors

Hydrostatic transmissions

Transit mixer drives

Hydrostatic transaxles

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Integrated systems

Microcontrollers and software

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Joysticks and control handles

Sensors

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