

Data Sheet

Orbital Motor

TMTHW

The Danfoss TMTHW Orbital Motor covers the highest performing motor for work functions, the TMTHW is performing excellent on applications where the demand for high torque and high speed is needed (compared to other hydraulic-motor principles). The extra sealing design allows high pressure rating performance. The increased bearing capacity design makes the TMTHW more robust and gives more reliability in certain applications. Danfoss now has 2 size TMTHW motors.

TMTHW Size: 315-800cc

The TMTHW Motor is designed by Danfoss Power Solutions in Denmark, who for more than 50 years has been developing state-of-the-art orbital motors. It is based upon the same design principles as the well-proven Danfoss TMT Motor.



Features

- Robust bearing design
- Not sensitive towards return pressure
- Extra patented sealing design
- High pressure rating
- Excellent performance / weight
- Designed based on decades of experience with orbital motor-technology

Applications

- Harvester heads
- Forest machine
- Conveyor belts
- Skid steer loader
- Stone Crusher
- Crane
- And more

Key Data

- Displacement range: 315-800 cc
- Speed (max): 590 rpm
- Output torque (int.): 3510 Nm
- Pressure drop up to 350 bar
- Flow up to 240 l/min
- Effect up to 65 kW
- Port connection G 3/4"

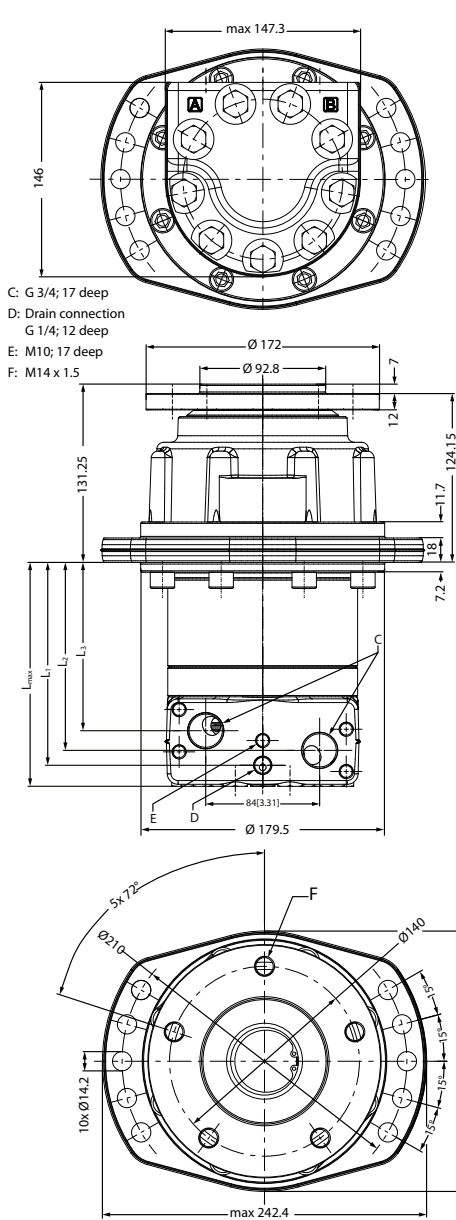
Comprehensive technical literature online
at powersolutions.danfoss.com

Benefits

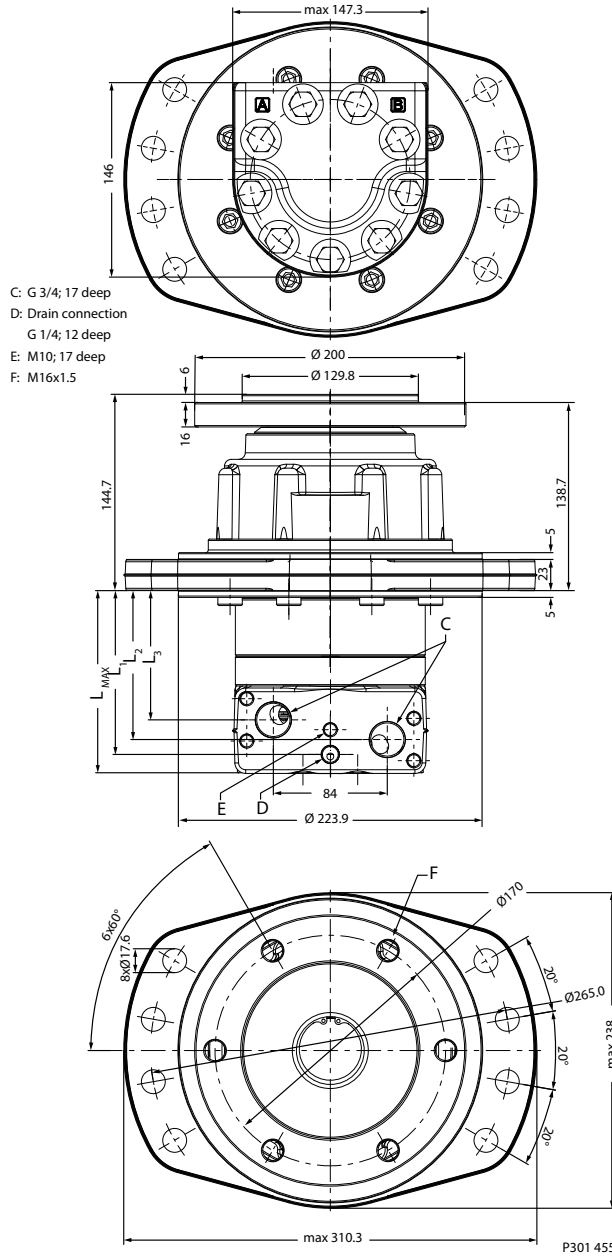
- Increased productivity and performance in use
- Better energy-optimizing
- Less service costs

Dimensions

Sizes 315-800cc (left) and 400-800cc (right)



- C: G 3/4; 17 deep
- D: Drain connection
- G 1/4; 12 deep
- E: M10; 17 deep
- F: M14 x 1.5



- C: G 3/4; 17 deep
- D: Drain connection
- G 1/4; 12 deep
- E: M10; 17 deep
- F: M16x1.5

Size	Output shaft	Weight	Mounting flange
315-800cc	F180/5xM14 BC ø140/PD.ø92.8	34-38 kg	Wheel 10x ø14 BC ø210/PD ø180
400-800cc	F200/6xM16 BC ø170/PD.ø130	42.1-44.5 kg	Wheel 8x ø17,5 BC ø265/PD ø224

Size	L _{MAX} (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)
315-800cc				
TMTHW 315	133.1	114.9	103.9	89.4
TMTHW 400	145.2	127.0	116.0	101.5
TMTHW 500	153.8	135.6	124.6	110.1
TMTHW 630	167.8	149.6	138.6	124.1
TMTHW 800	167.8	149.6	138.6	124.1

TMTHW Orbital Motor

Size	L_{MAX} (mm)	L₁ (mm)	L₂ (mm)	L₃ (mm)
400-800cc				
TMTHW 400	139	120.8	109.8	95.3
TMTHW 500	147.6	129.4	118.4	103.9
TMTHW 630	161.6	143.4	132.4	117.9
TMTHW 800	161.6	143.4	132.4	117.9

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