



# **Data Sheet** H1P 115/130 **Axial Piston Single Pumps**

For more than 40 years, Danfoss has been developing state-of-the-art components and systems for mobile machinery used in off-highway operations around the world.

We have become a preferred supplier by offering the best of what really matters: The hardware inside your vehicle application.

The H1 range is built around an advanced control and available in a wide range of displacements. It is designed for quality and reliability and offers expanded functionality, greater total efficiency, and easy installation.

All H1 control and sensor options are PLUS+1® Compliant. PLUS+1<sup>®</sup> allows you to rapidly develop and customize electronic machine control. It opens up the future by combining machine controls and diagnostics in an integrated operating network.

#### Features

#### Designed for quality and reliability

- One design concept
- Single piece swash plate

# Wide range of controls

- Electro-hydraulic controls:
  - Electrical Displacement Control (EDC)
  - Forward-Neutral-Reverse (FNR)
  - Non-Feedback Proportional Electric (NFPE)
- Automotive Control (AC)
- Fan Drive Control (FDC)
- Manual Displacement Control (MDC)
- Common control across entire family

# **Greater total efficiency**

- Minimized control losses
- Improved charge circuit
- Lower control pressure for less power consumption

#### Installation and packaging benefits

- Length optimized pump
- Minimum one clean side
- Higher corner HP / package size ratio
- Standardized connector interface



# **Expanded functionality**

- PLUS+1<sup>®</sup> Compliant control and sensor options
- Integral filtration available with integrated filter bypass sensors and switch

For more information see the H1P 115/130 **Axial Piston Single Pumps Technical** Information, BC00000198.

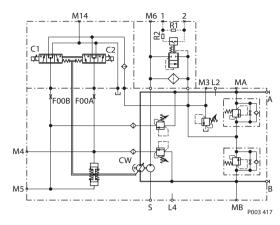
Comprehensive technical literature is online at www.danfoss.com



#### ENGINEERING TOMORROW

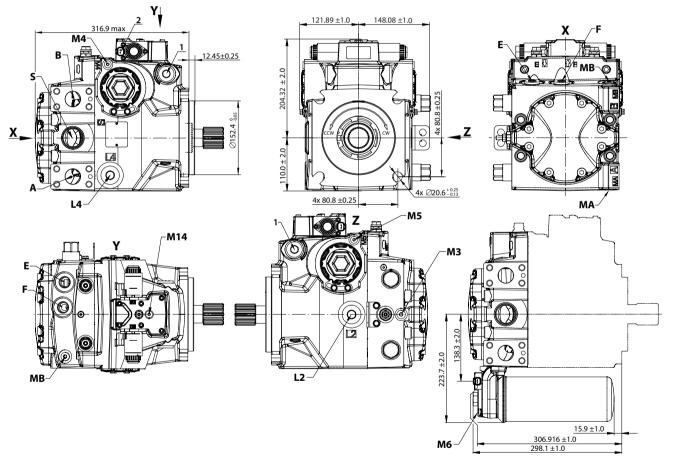
# **Technical Specifications**

Parameters Size 115 Size 130 Displacement cm<sup>3</sup> [in<sup>3</sup>] 115.2 [7.03] 130.0 [7.93] Input speed Minimum 500 min<sup>-1</sup> (rpm) Rated 3200 Maximum 3400 450 [6528] System pressure Max. working bar [psi] Maximum 480 [6960] Min. low loop 10 [145] Case pressure Rated 3.0 [44.0] bar [psi] Maximum 5.0 [73.0] Weight (without PTO and filter), kg [lb] 83 [187]



Schematic

\* Pressures above max. working pressure requires Danfoss approval.



**A/B** system ports: Ø31.5 mm; M12 x 1.75; 20 min. full thread depth **MA/MB** (system), **M3, M6** (charge) gauge ports per ISO 11926-1:  $\frac{9}{16}$ -18 **M4, M5** (servo), **M14** (case) gauge ports per ISO 11926-1:  $\frac{7}{16}$ -20 **L2, L4** – Case drain ports per ISO 11926-1:  $\frac{15}{16}$ -12

- **E/F** Charge filtration ports per ISO 11926-1:  $1^{1/16}$ -12
- $\boldsymbol{S}$  Charge inlet port per ISO 11926-1:  $15_{\!/\!8}$  –12 (SAE O-ring boss)
- 1 Case pressure port per ISO 11926-1:  $1^{1}\!/_{16}\!-\!2$
- 2 Connector DEUTSCH DT04-2P, to be paint free

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