

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® 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.



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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[®] 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

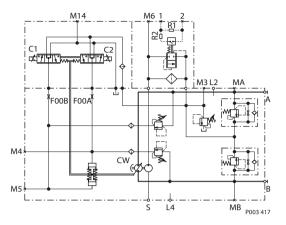
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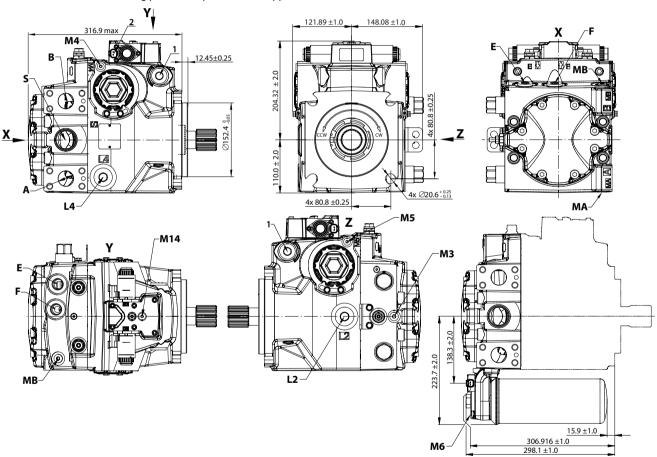
Technical Specifications

Parameters		Size 115	Size 130
Displacement cm ³ [in ³]		115.2 [7.03]	130.0 [7.93]
Input speed min ⁻¹ (rpm)	Minimum	500	
	Rated	3200	
	Maximum	3400	
System pressure bar [psi]	Max. working*	450 [6528]	
	Maximum	480 [6960]	
	Min. low loop	10 [145]	
Case pressure bar [psi]	Rated	3.0 [44.0]	
	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: $1\frac{1}{16}$ -12

- **S** Charge inlet port per ISO 11926-1: 15% 12 (SAE O-ring boss)
- **1** Case pressure port per ISO 11926-1: $\frac{7}{8}$ –14
- 2 Connector DEUTSCH DT04-2P, to be paint free

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