

Data Sheet

H1 Axial Piston Single Pump

Size 147/165 cm³

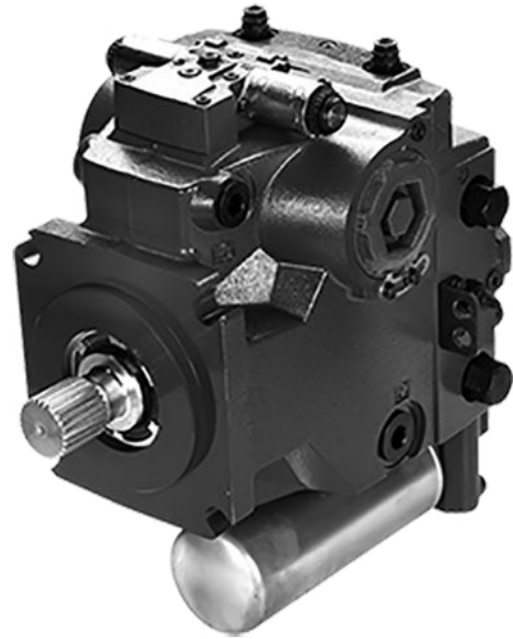


For more than 40 years, Danfoss has been developing state-of-the-art components and systems for mobile machinery used in off-highway operations around the world.

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.



Features

Designed for quality and reliability

- One design concept
- Single piece swash plate

Installation and packaging benefits

- Length optimized pump
- Minimum one clean side
- Higher corner HP / package size ratio
- Standardized connector interface
- Expanded functionality through PLUS+1[®]

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

Expanded functionality

- PLUS+1[®] Compliant control and sensor options
- Integral filtration available with integrated filter bypass sensors and switch

Greater total efficiency

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

Comprehensive technical literature online at powersolutions.danfoss.com

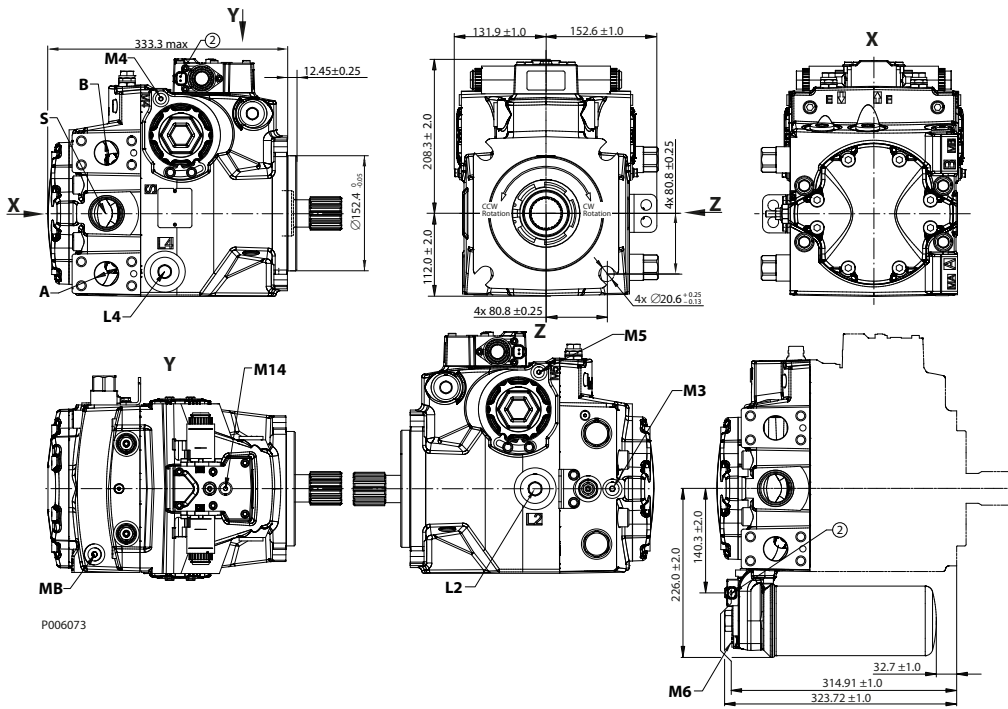
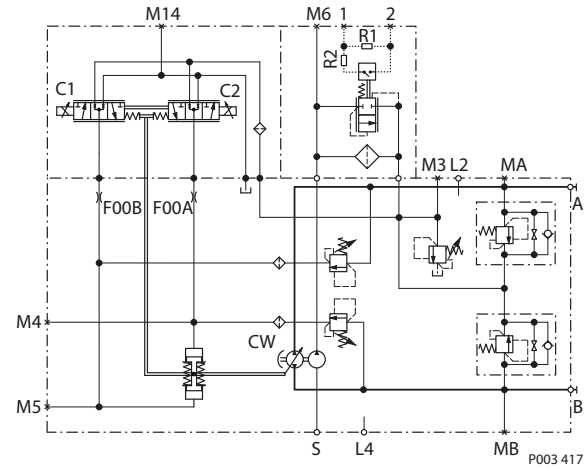


Technical Specifications

Parameters		Size 147	Size 165
Displacement cm ³ [in ³]		147.2 [8.98]	165.1 [10.08]
Input speed min ⁻¹ (rpm)	Minimum	500	
	Rated	3000	
	Maximum	3100	
System pressure bar [psi]	Max. working*	450 [6525]	
	Maximum	480 [6962]	
	Min. low loop	10 [150]	
Case pressure bar [psi]	Rated	3.0 [40]	
	Maximum	5.0 [75]	
Weight (without PTO and filter), kg [lb]		96 [211]	

* Pressures above max. working pressure requires Danfoss approval.

Schematic



- A, B** – System ports, Ø31.5 – 450 bar, split flange boss per ISO 6162
- MA, MB** – System gauge ports, 9/16-18
- M3, M6** – Charge gauge port, 9/16-18
- M4, M5** – Servo gauge ports, 7/16-20
- All ports per ISO 11926-1; max. clearance dia for fitting.

- M14** – Case gauge port, 7/16-20
- L2, L4** – Case drain ports, 1 5/16-12
- S** – Charge inlet port, 1 5/8-12
- 2** – Connector DEUTSCH
- Optional:* Integrated charge pressure filtration

Detailed technical information are available in the *Technical Information H1 Axial Piston Single Pumps, Size 147/165, BC0000061*.

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