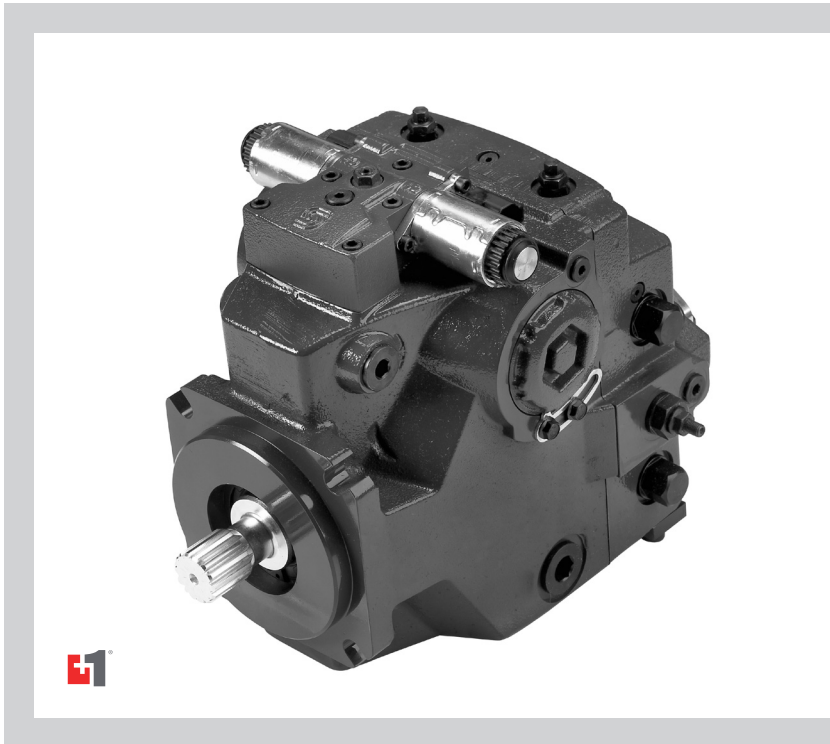




Data Sheet

# H1 Axial Piston Pump

## 069/078 cm<sup>3</sup> Single Pump



**Introduction**

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. H1 - our new generation of servo-controlled hydrostatic pumps - is no exception.

The H1 range is built around an advanced electrical 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 power
  - Higher package size ratio
  - Standardized connector interface
  - Expanded functionality through PLUS+1®
- Optimized for electrical control
  - Electro-hydraulic control options include Electrical Displacement Control (EDC), Forward-Neutral-Reverse (FNR) and Non-Feedback Proportional Electric (NFPE)
  - Automotive Control (AC)
  - Fan Drive Control (FDC)
  - 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

Technical Specifications

Physical properties

Features	Unit	Sizes 069	Sizes 078
Displacement	cm <sup>3</sup> [in <sup>3</sup> ]	69.2 [4.22]	78.1 [4.77]
Weight (without PTO and filter)	kg [lb]	56	[123]

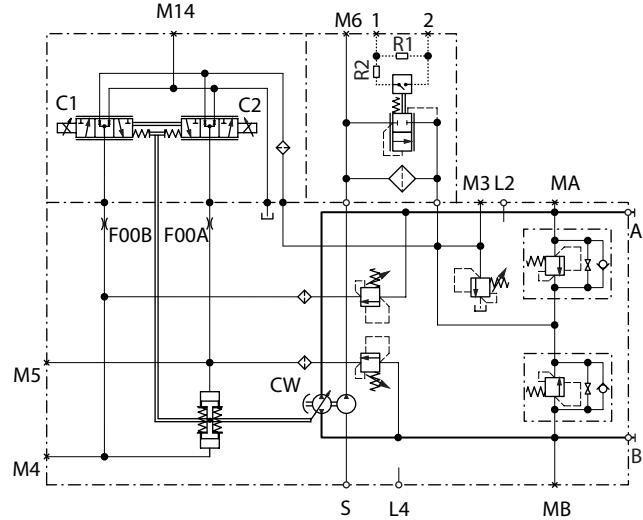
Operating parameters

Input speed	Minimum	min <sup>-1</sup> (rpm)	500	
	Rated		3500	
	Maximum		4000	
System pressure	Maximum working pressure*	bar [psi]	450	[6525]
	Maximum pressure		480	[6962]
	Minimum low loop		10	[150]
Case pressure	Rated	bar [psi]	3.0	[40]
	Maximum		5.0	[75]

\* Applied pressures above maximum working pressure requires Danfoss application approval.

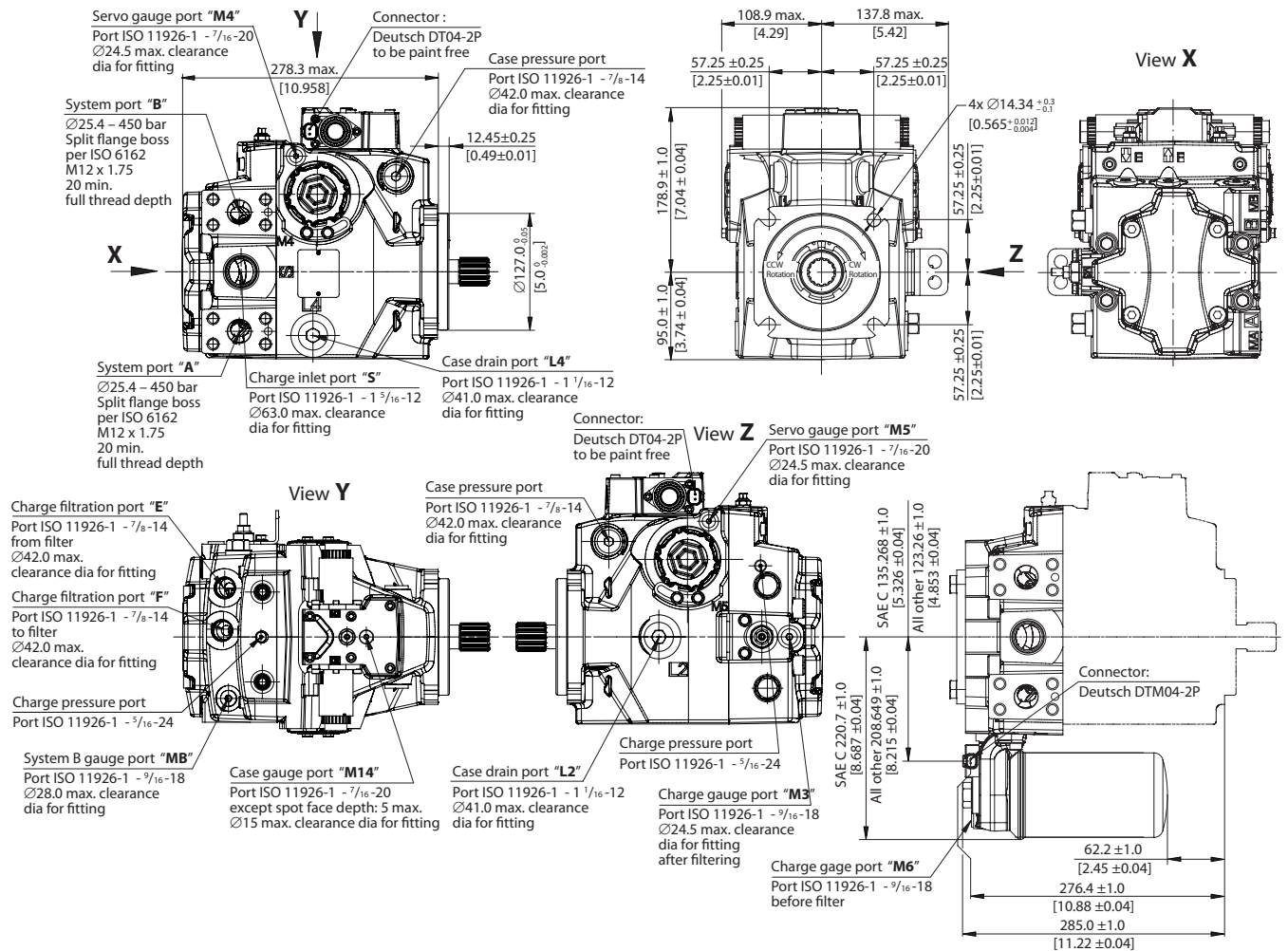
T301 072

Schematic



P003 417

Dimensions



**Danfoss Power Solutions US Company**  
 2800 East 13th Street  
 Ames, IA 50010, USA  
 Phone: +1 515 239 6000

**Danfoss Power Solutions GmbH & Co. OHG**  
 Krokamp 35  
 D-24539 Neumünster, Germany  
 Phone: +49 4321 871 0

**Danfoss Power Solutions ApS**  
 Nordborgvej 81  
 DK-6430 Nordborg, Denmark  
 Phone: +45 7488 2222

**Danfoss Power Solutions**  
 22F, Block C, Yishan Rd  
 Shanghai 200233, China  
 Phone: +86 21 3418 5200

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