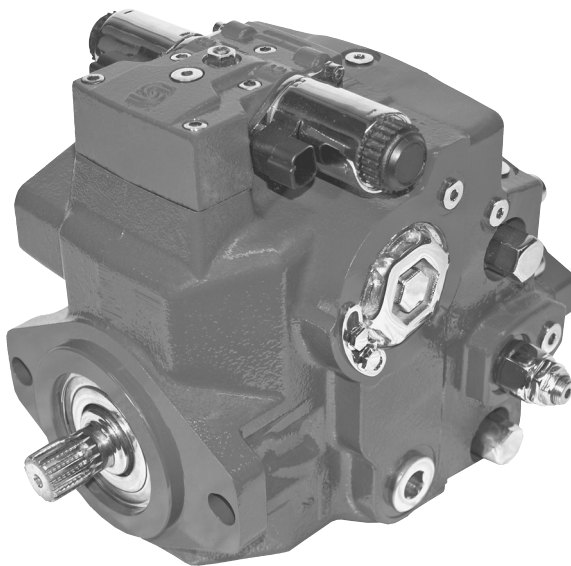


Data Sheet

H1 Axial Piston Pump

045/053 cm³ 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
 - Active, high response pressure limiter available
- Greater total efficiency
 - Minimized control losses
 - Improved charge circuit
 - Lower control pressure for less power consumption

Technical Specifications

Physical properties

Features	Unit	Sizes	
		045	053
Displacement	cm ³ [in ³]	45 [2.75]	53.8 [3.28]
Weight (without PTO and filter)	kg [lb]	41 [90]	

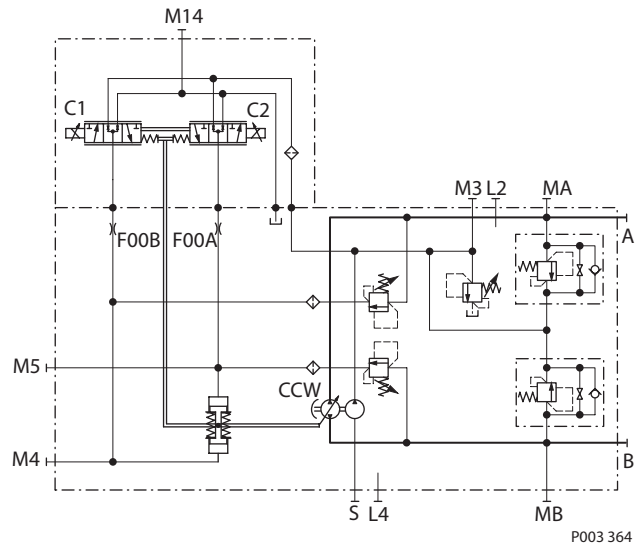
Operating parameters

Input speed	Minimum	min-1 (rpm)	500	
	Rated		3400	
	Maximum		3500	
System pressure	Maximum working pressure*	bar [psi]	420 [6090]	380 [5510]
	Maximum pressure		450 [6525]	400 [5800]
	Minimum low loop		10 [150]	
Case pressure	Rated	bar [psi]	3.0 [40]	
	Maximum		5.0 [75]	

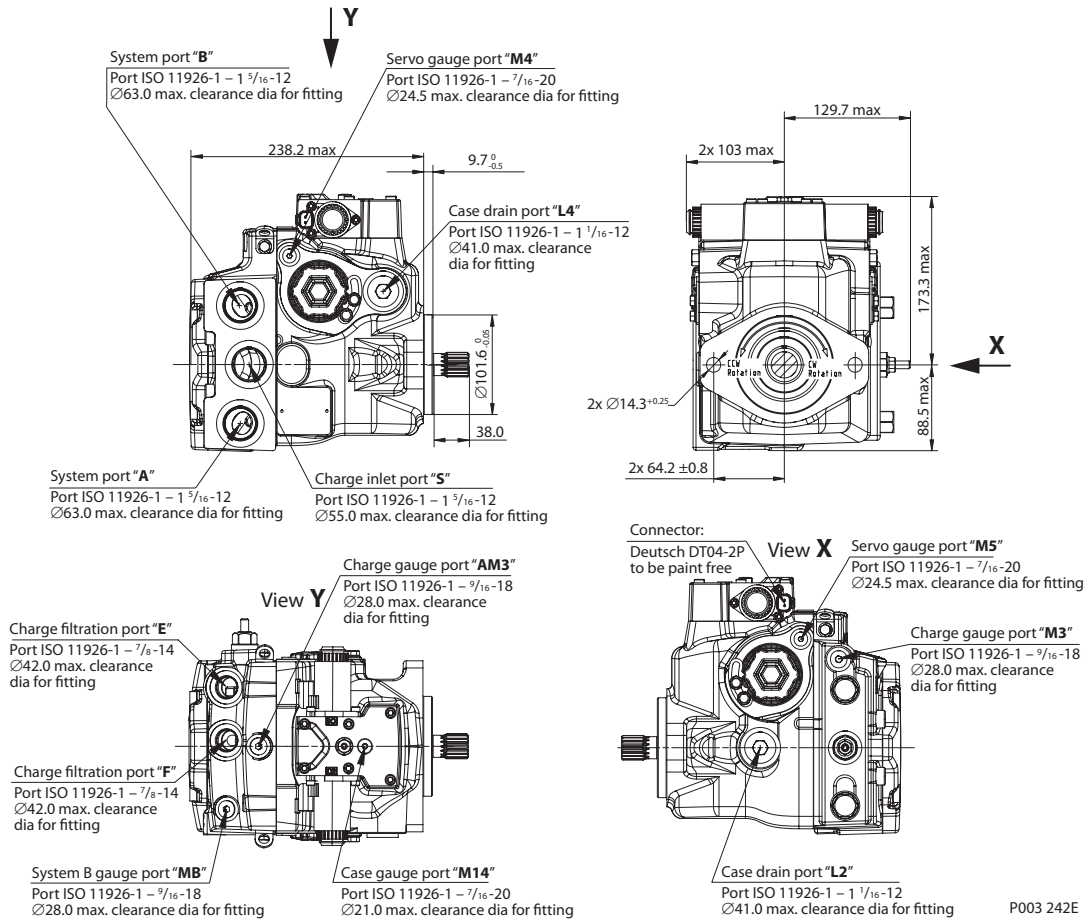
* Applied pressures above maximum working pressure requires Danfoss application approval.

T301 069E

Schematic



Dimensions



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