

# H1-The new Generation of Hydrostatics 147/165 cm<sup>3</sup> Single Pumps

## Introduction

For more than 40 years, Sauer-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.

Local Address:



 **PLUS+1** COMPLIANT

*H1 Axial piston pump  
Size 147/165 single pump*

## 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)
- Common control across entire family

- **Expanded functionality**

- Optional Integrated Speed Limitation valving
- 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	
		147	165
Displacement	cm <sup>3</sup> [in <sup>3</sup> ]	147.2 [8.98]	165.1 [10.08]
Weight (without PTO and filter)	kg [lb]	96 [211]	

### Operating parameters

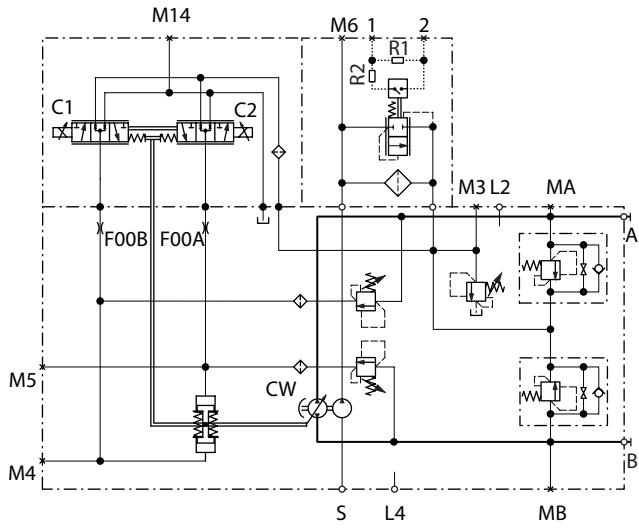
Input speed	Minimum	min-1 (rpm)	500
	Rated		3000
	Maximum		3100
System pressure	Maximum working pressure*	bar [psi]	450 [6525] 420 [6090]
	Maximum pressure		480 [6960] 450 [6525]
	Minimum low loop		10 [150]
Case pressure	Rated	bar [psi]	3.0 [40]
	Maximum		5.0 [75]

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

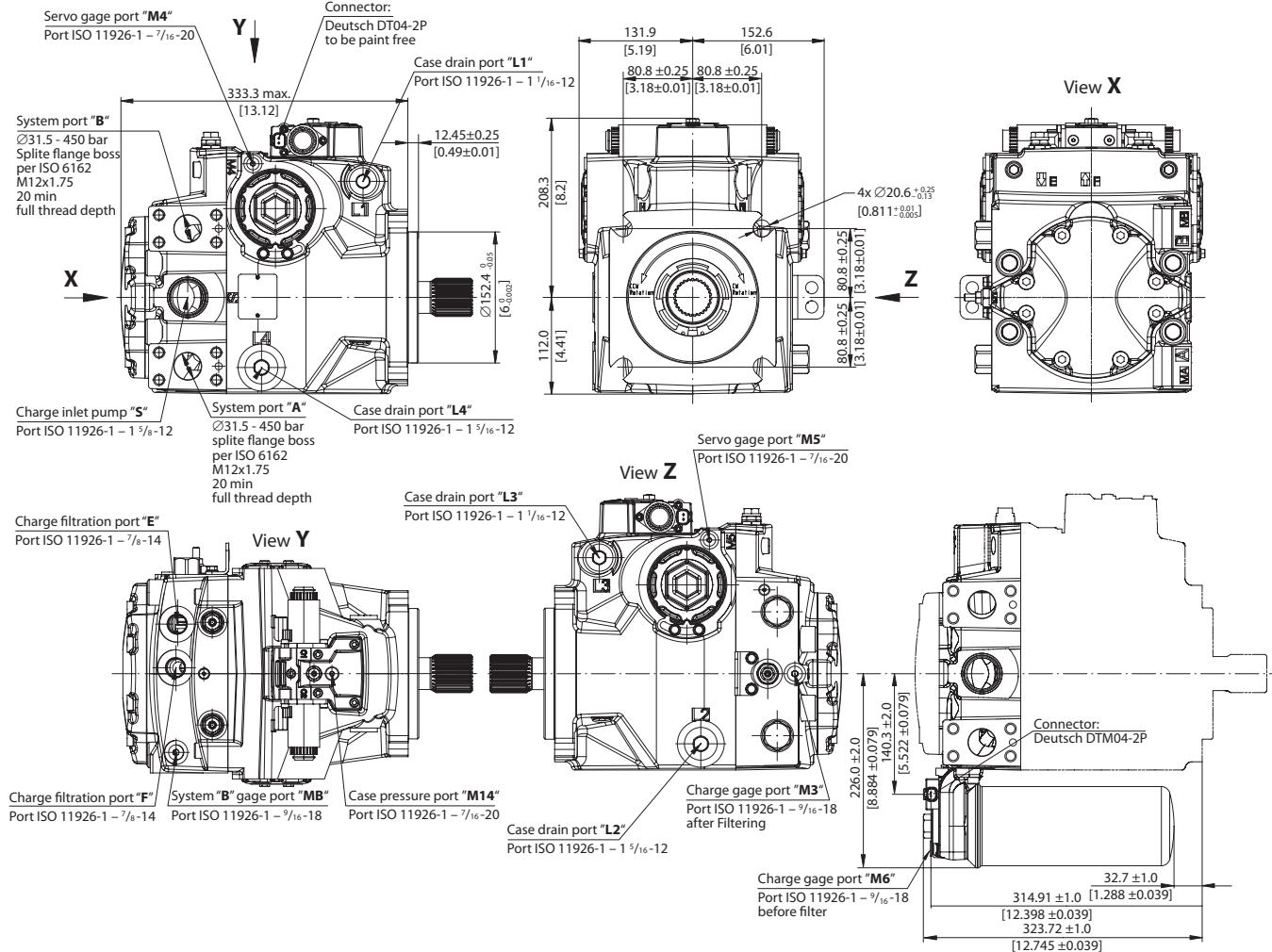
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### Schematic



### Dimensions



Optional: Integrated charge pressure filtration