# H1-The new Generation of Hydrostatics 045/053 cm<sup>3</sup> Tandem 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 servocontrolled 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:



H1 Axial piston pump Frame size 045/053 tandem pump

COMPLIANT

#### Features

# Designed for quality and reliability

- One design concept
- Single piece swash plate
- Integrated auxiliary pad

# • 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
- High strength mounting flange

#### • Optimized for electrical control

- Electro-hydraulic control options include
  Electrical Displacement Control (EDC) and
  Forward-Neutral-Reverse (FNR)
- Common control across entire family

#### • Expanded functionality

- Full compliment of diagnostic ports including case pressure
- PLUS+1 Compliant control and sensor options
- Control Cut Off (CCO) valve with integral logic (brake) port

# Greater total efficiency

- Minimized control losses
- Lower control pressure for less power consumption
- Reduced charge pressure rise rate between idle and high idle



## **Technical Specifications**

#### Physical properties

Features	Unit	Frame Sizes	
		045	053
Displacement	cm <sup>3</sup> [in <sup>3</sup> ]	45 [2.75]	53.8 [3.28]
Weight (without PTO and filter)	kg [lb]	65.7 [144.8]	

#### **Operating parameters**

Input Speed	Minimum	min-1 (rpm)	500			
	Rated		3400			
	Maximum		3500			
System Pressure	Rated*	bar [psi]	400 [5800]	350 [5075]		
	Maximum		420 [6090]	400 [5800]		
	Minimum low loop		10 [150]			
Case Pressure	Rated	bar [psi]	2.0 [29]			
	Maximum		5.0 [75]			

\* Applied pressures above Rated requires Sauer-Danfoss application approval.

#### **Dimensions**

## **Schematic**





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