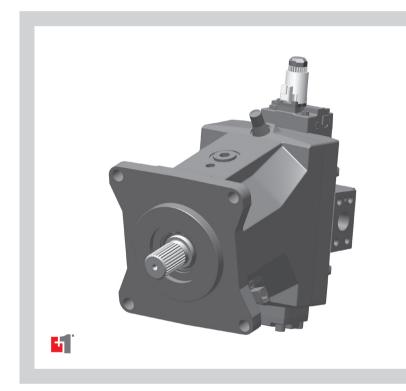
# **Data Sheet**



# H1-The new Generation of Hydrostatics 250 cm<sup>3</sup> Bent Axis Variable Motor



Features

# Designed for quality and reliability

- Proven and optimized 9 piston rotating group
- Single piece housing
- Electric components with IP67 & IP69K rating

# Installation and packaging benefits

- Optimized for shortest length
- Standardized connector interface
- Integrated loop flushing device
- Radial or axial high pressure ports

### • Wide range of controls

- Electric Two-position Control
- Electric Proportional Control
- Hydraulic Two-position Control
- Hydraulic Proportional Control
- Pressure Compensator Override
- Proportional Pressure Compensator Override
- Brake Pressure Defeat option

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 and bent axis variable motors is no exception.

The H1 product 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<sup>®</sup> Compliant. PLUS+1<sup>®</sup> 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.

- Common controls across the entire motor family
- PLUS+1<sup>®</sup> Compliant control and sensor options

## Expanded functionality

- Zero degree capability together with a high performance 32 degree maximum angle
- Enhanced control functions with proportional controls de-energized at minimum or maximum displacement
- Optional integrated speed sensor with
  - Dual redundant speed sensing
  - Direction indication
  - Temperature sensing
  - Wire fault detection

### • Greater total efficiency

- Minimized losses
- Improved at high flow conditions

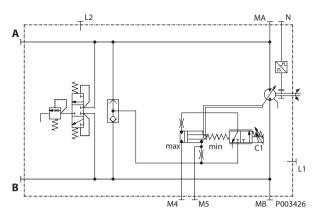


## **Technical specifications**

#### **Physical Properties**

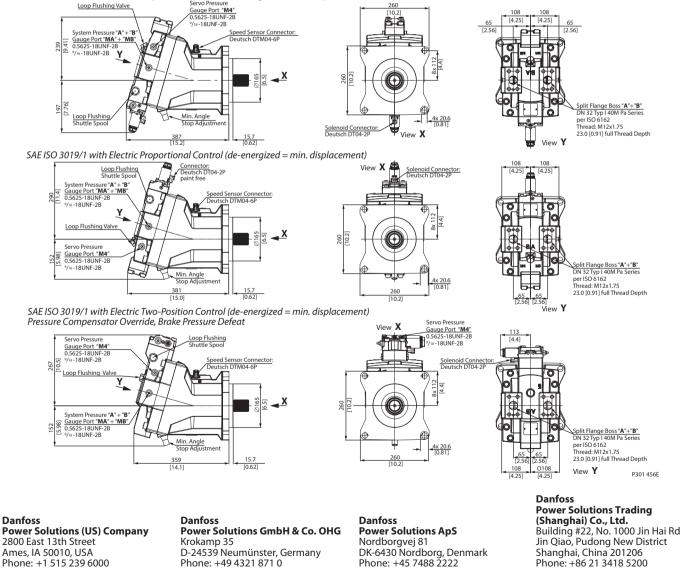
ingsicul roperties			
Features	Units	Size 250	
Displacement	cm <sup>3</sup> [in <sup>3</sup> ]	250 [15.25]	
Weight (with Electric Proportional Control)			
SAE ISO 3019/1	kg [lb]	87.7 [193]	
Operating Parameters			
Output Speed min-1 [rpm]	Rated	at max. displacement	2200
		at min. displacement (6°)	3650
		at 0° displacement	4050
	Maximum	at max. displacement	2800
		at min. displacement (6°)	4500
		at 0° displacement	4900
System Pressure bar [psi]	Working		450 [6527]
	Maximum		480 [6960]
	Min. low loop		7.5 [109]
Case Pressure bar [psi]	Rated		3 [44]
	Maximum		5 [73]
	Minimum		0.3 [4]

Schematic (example) Electric Proportional Control (de-energized = max. displacement)



### Installation Drawings





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