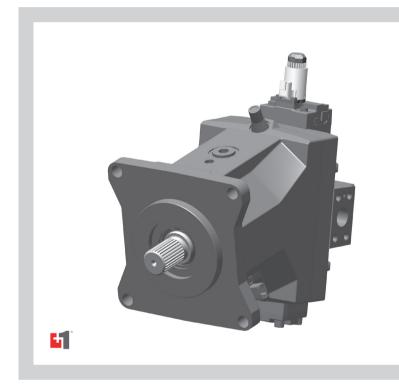


Data Sheet

H1 Bent Axis Variable Motor 250 cm³



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

• Optimized for electric control

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

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 and bent axis variable motors - 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.

- Common controls across the entire motor family
- Plus+1 Compliant control and sensor options
- Expanded functionality
 - Zero degree capability in conjunction with unchanged
 - 32 degree feature
 - 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

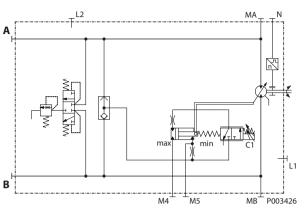


Technical specifications

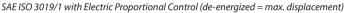
Physical Properties

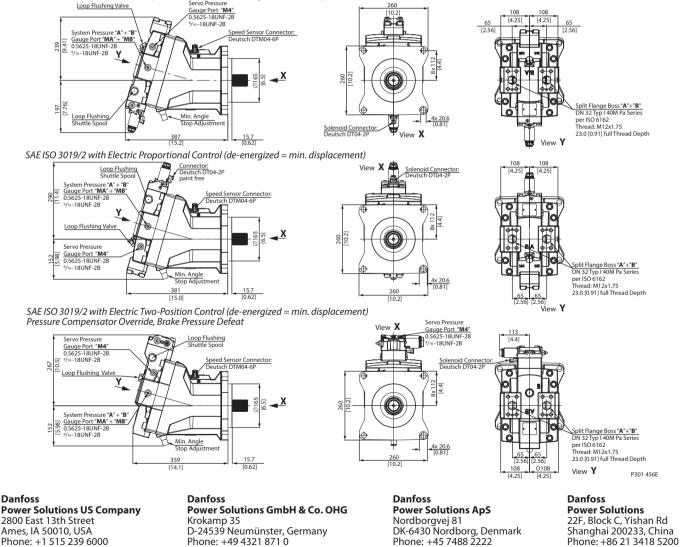
rnysical rioperties			
Features	Units	Size 250	
Displacement	cm ³ [in ³]	250 [15.25]	
Weight (with Electric Proportional Control)			
SAE ISO 3019/1	kg [lb]	87.7 [193]	
Operating Parameters			
Output Speed min-1 [rpm]	Rated	at max. displacement	2200
		at min. displacement (6°)	3650
		at 0° displacement	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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