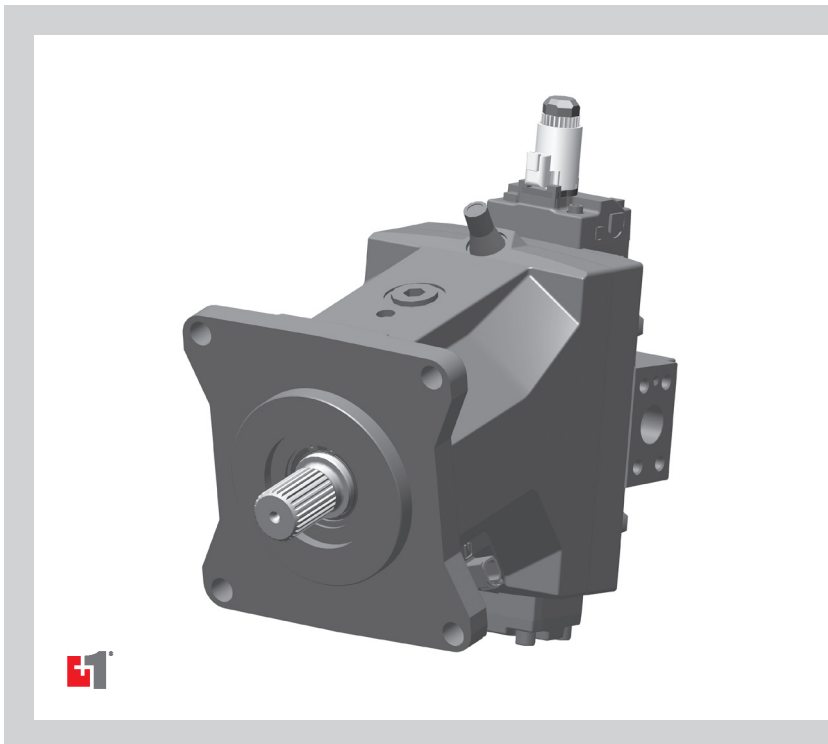


Data Sheet

H1-The new Generation of Hydrostatics

250 cm³ Bent Axis Variable Motor



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[®] 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**
 - 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
- **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
- **Common controls across the entire motor family**
 - PLUS+1[®] Compliant control and sensor options

Technical specifications

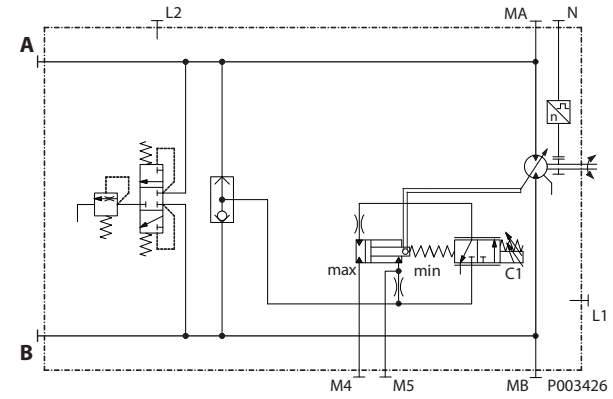
Physical Properties

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
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)

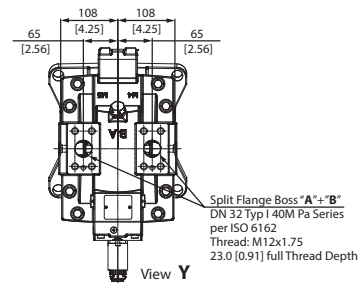
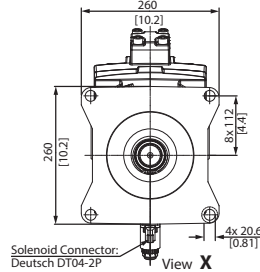
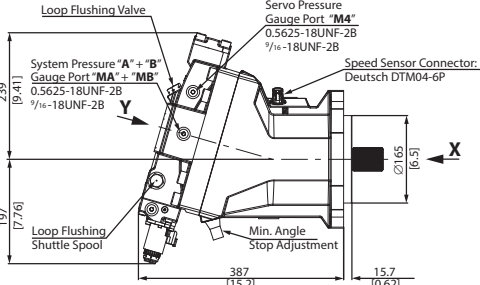
Electric Proportional Control

(de-energized = max. displacement)

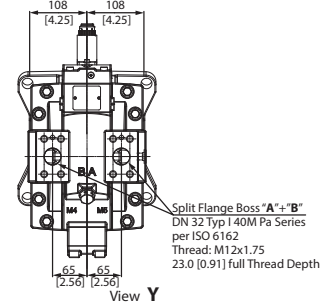
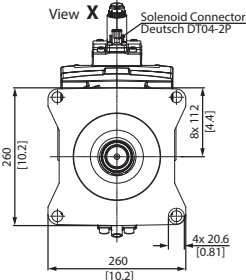
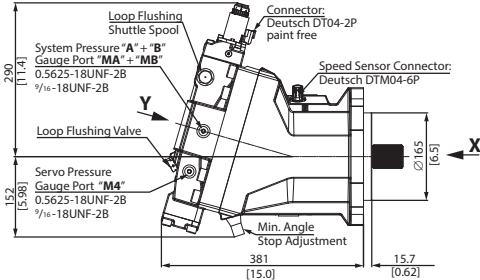


Installation Drawings

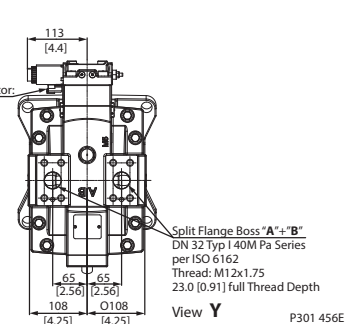
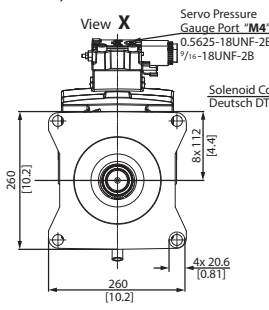
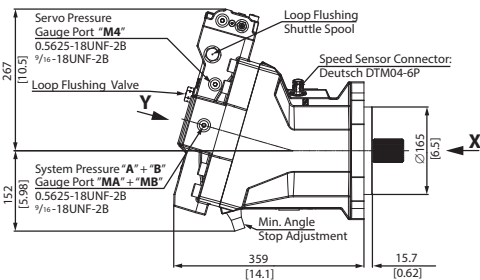
SAE ISO 3019/1 with Electric Proportional Control (de-energized = max. displacement)



SAE ISO 3019/1 with Electric Proportional Control (de-energized = min. displacement)



SAE ISO 3019/1 with Electric Two-Position Control (de-energized = min. displacement) Pressure Compensator Override, Brake Pressure Defeat



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