

Data Sheet

Series 42 Axial Piston Pumps

41/51 cm³



The Series 42 pumps have been part of this tradition for more than 15 years with proven reliability for tough medium duty applications. Recently, the HC-EDC and 32cc have been added to the long list of options

Series 42 was designed with many optional features in a small package size. This helps the Series 42 fit in tight places and simplify circuit design..

Four displacements in two frame sizes, (28/32 and 41/51), help to cover a wide range of medium duty applications.

Two pumps can be bolted together with additional capability for auxiliary mounting. Optional housings offer increased flexibility for conversion and base model programs with many interchangeable components.



Features

Designed for Durability and Flexibility

- Single Piece Housing / End cap
- No High Pressure Sealing
- Single Piece Swash plate
- Bolt Together Tandem Configurations

Installation and Packaging benefits

- Optimized for Shortest Length
- One Clean Side
- High Corner Power
- Integrated Loop Flushing Device

Wide Range of Controls

- High Current Electrical Displacement Control (HC-EDC)
- Electrical Displacement control (EDC)
- Mechanical Displacement control (MDC)
- Forward-Neutral-Reverse (FNR)
- Non-Feedback Proportional Electric (NFPE)
- Non-Feedback Proportional Hydraulic (NFPH)

Wide Range of Options

- Loop Flushing
- Geroter Charge Pumps
- Loop Bypass
- High Pressure Relief Valve (HPRV)
- Charge Pressure Relief Valve (CPRV)
- Optional SAE A-Pad and SAE B-Pad Auxiliary Mounting

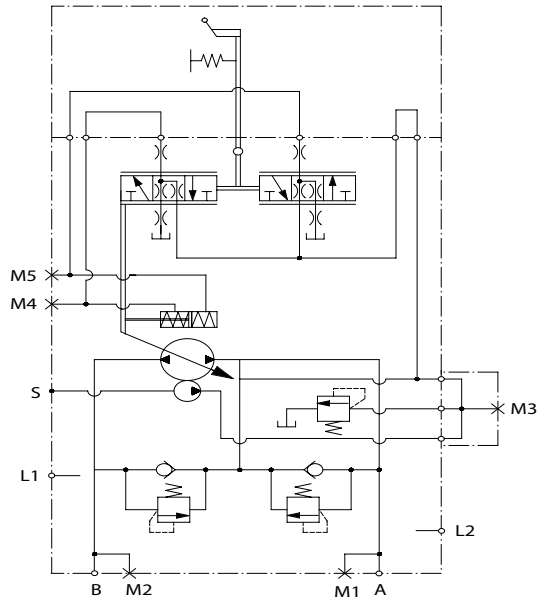
Comprehensive technical literature online at powersolutions.danfoss.com

Technical Specifications

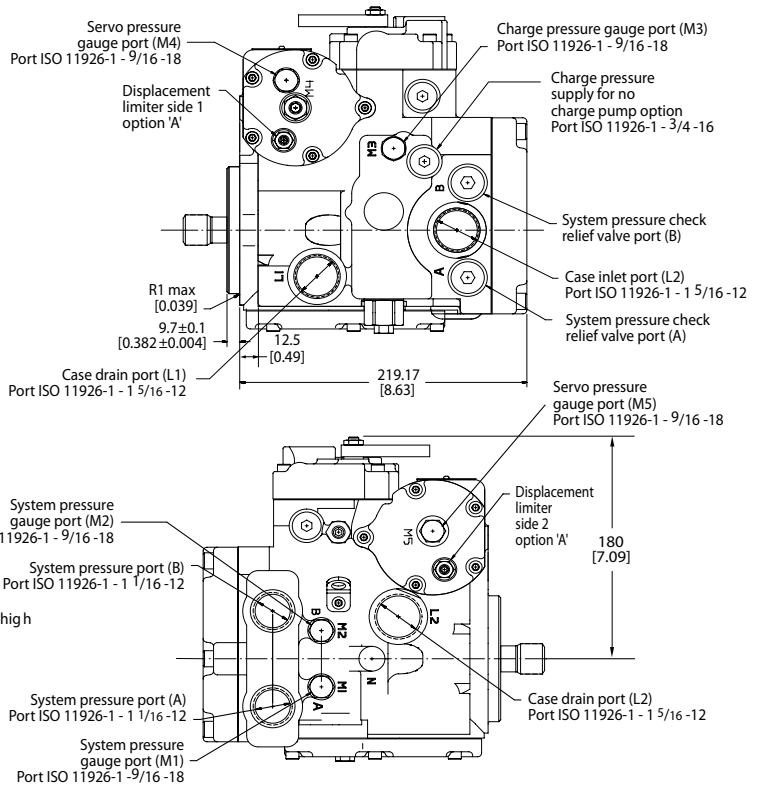
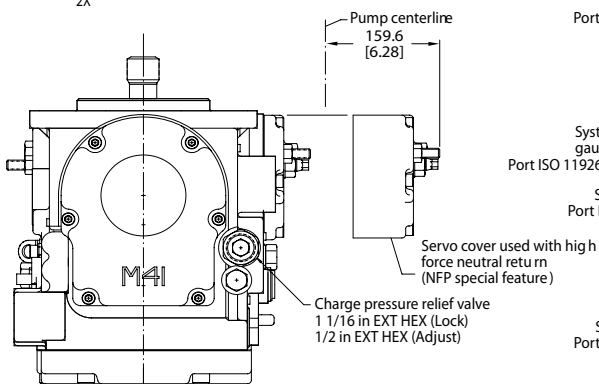
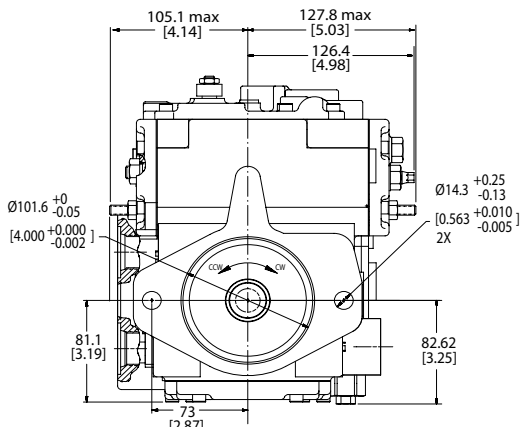
Features		Unit	Size	
			41	51
Displacement		cm ³ [in ³]	40.9 [2.50]	51 [3.11]
Weight		kg [lb]	42 [92]	
Input Speed	Minimum	min ⁻¹ (rpm)	500	500
	Rated		3200	2900
	Maximum		3450	3400
System Pressure	Max. Working Pressure*	bar [psi]	400 [5800]	350 [5075]
	Max. pressure		450 [6525]	400 [5800]
	Min. Low Loop		10 [145]	
Case Pressure	Rated	bar [psi]	3 [44]	
	Maximum		5 [73]	

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

Schematic



Dimensions



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