

 $N \equiv W$

DPM050

Directional Monoblock Valves for Forklift applications



Higher controllability for Forklifts through Walvoil technologies

DPM050 VALVE

- Load Sensing Open Center
- Local compensator on tilt function (section 2)
- Zero leakage valve on tilt port
- 2 (+1) shuttle valves for Load Sensing signal management



DPM050 DIRECTIONAL MONOBLOCK VALVES

FOR FORKLIFT APPLICATIONS



In recent years the forklift market has quickly evolved towards more and more sophisticated technological solutions, driven by specific needs such as compliance with international safety regulations, energy optimization to maximize operations and the need for high performance and functionality.

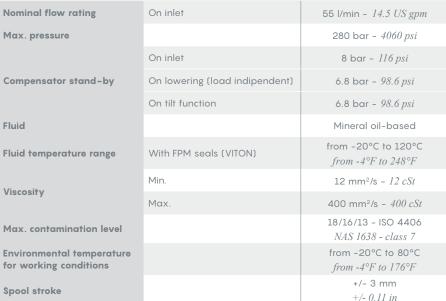
Walvoil's new DPM050 has been specially designed to meet all these requirements.

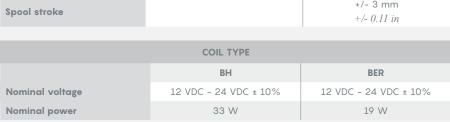
It is a Load Sensing Open Center monoblock valve with 3 working sections, extendable up to 4, where each section is dedicated to a specific machine function: Lift, Tilt, Side shift, Auxiliary (with additional flangeable section).

The DPM050 is equipped with main inlet compensator for energy optimization, a specific compensator for descent control on Lift function, a dedicated compensator for Tilt function, zero leakage load check valves, electric operated check valves and overcenter valves for ridondance signal to operations enabling.

WORKING CONDITIONS

Technical specifications and diagrams measured with mineral oil of 46 mm²/s (46~cSt) viscosity at 40°C – (104°F) temperature.





PORT THREADING*	
BSP	METRIC (ISO 262)
G 3/8	M18×1.5
G 3/8	M18×1.5
G 3/8	M16×1.5
G 1/2	M22×1.5
G 1/4	M14×1.5
G 1/8	M10×1 - M12×1.5
	BSP G 3/8 G 3/8 G 3/8 G 1/2 G 1/4

(*): Connection for fittings is available on request.

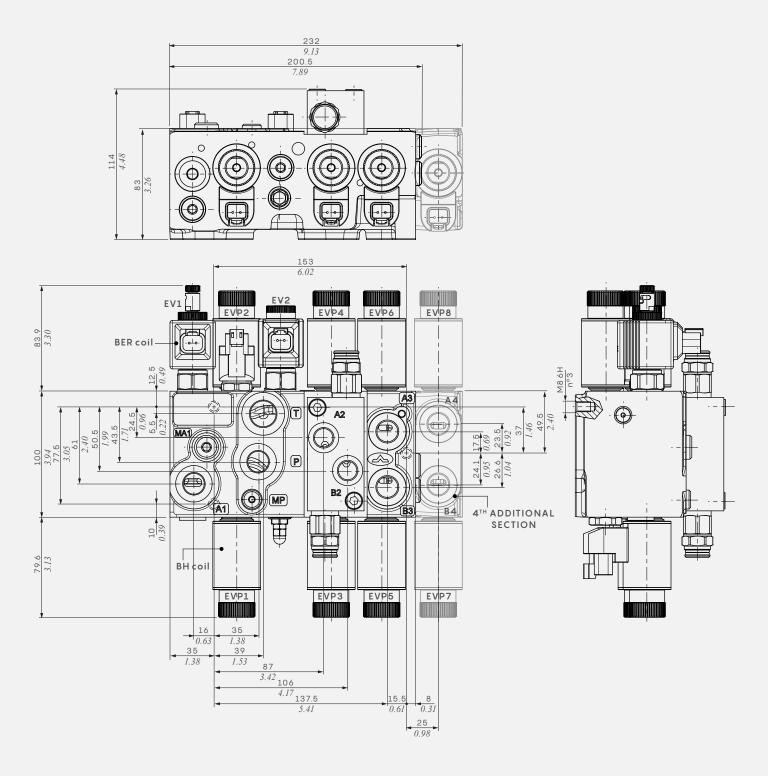
2



D2WWCA01A



DIMENSIONAL DATA

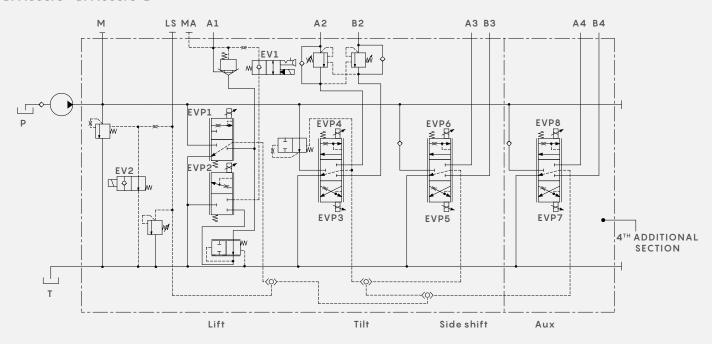


D2WWCA01A 3



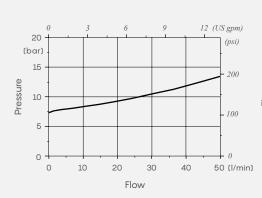
HYDRAULIC CIRCUITS

DPM050/3 - DPM050/3+1



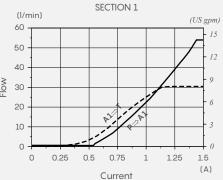
PERFORMANCE DATA

P⇒T Pressure drop inlet compensator (margin pressure)



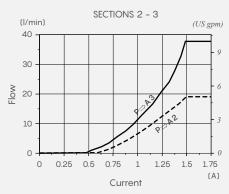
Flow vs. Current diagram





Flow vs. Current diagram

(P⇒A2 - Tilt) (P⇒A3 - Side shift)



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