

 $N \equiv W$

DPM050

Directional Monoblock Valves for Forklift applications



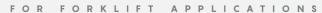
DPM050 VALVE

- 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

Higher controllability for Forklifts through Walvoil technologies



DPM050 DIRECTIONAL MONOBLOCK VALVES





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.

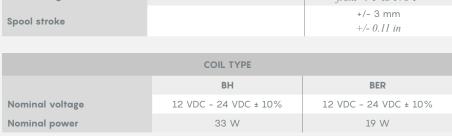
It is a Load Sensing Open Center monoblock valve with 3 working sections, extendable up to 4, where each section is dedicated to a specific machine function: Lift, Tilt, Side shift, Auxiliary (with additional flangeable section).

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*		
MAIN PORTS	BSP	METRIC (ISO 262)
P inlet	G 3/8	M18×1.5
A1/A3/A4 and B3/B4 ports	G 3/8	M18×1.5
A2 and B2 ports	G 3/8	M16×1.5
T outlet	G 1/2	M22×1.5
MA port	G 1/4	M14×1.5
MP port	G 1/8	M10×1 - M12×1.5

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

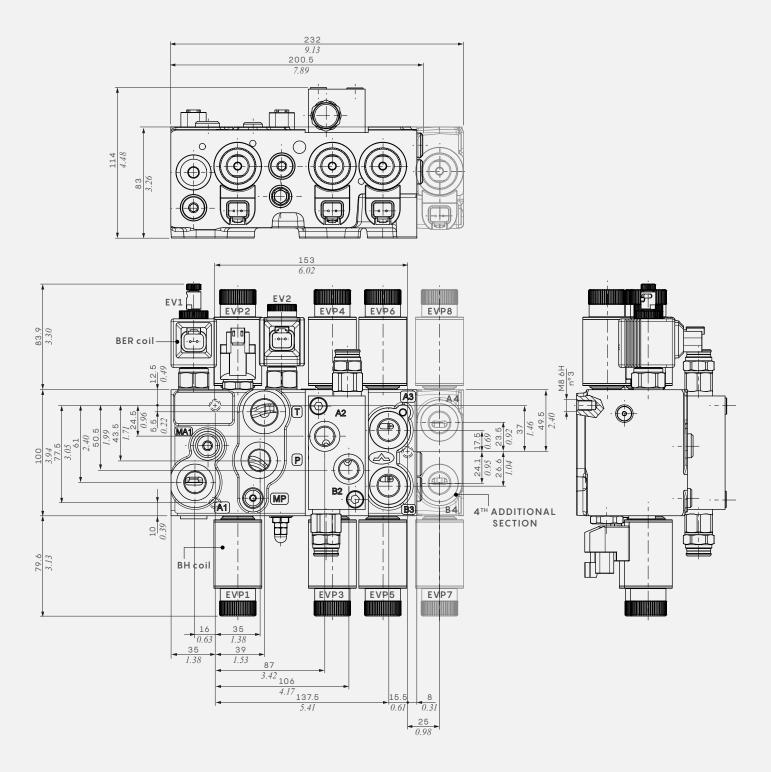


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DIMENSIONAL DATA

FOR FORKLIFT APPLICATIONS

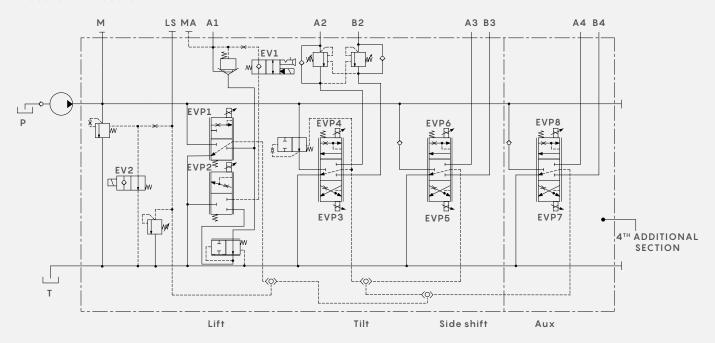


D2WWCA01E 3



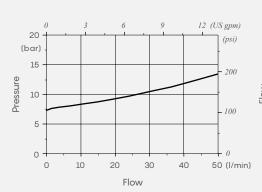
HYDRAULIC CIRCUITS

DPM050/3 - DPM050/3+1



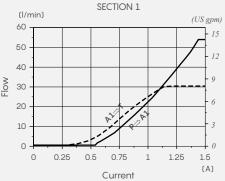
PERFORMANCE DATA

P⇒T Pressure drop inlet compensator (margin pressure)



Flow vs. Current diagram

(P⇒A1 - Lift) (A1⇒T - Descent)



Flow vs. Current diagram

(P⇒A2 - Tilt) (P⇒A3 - Side shift)

