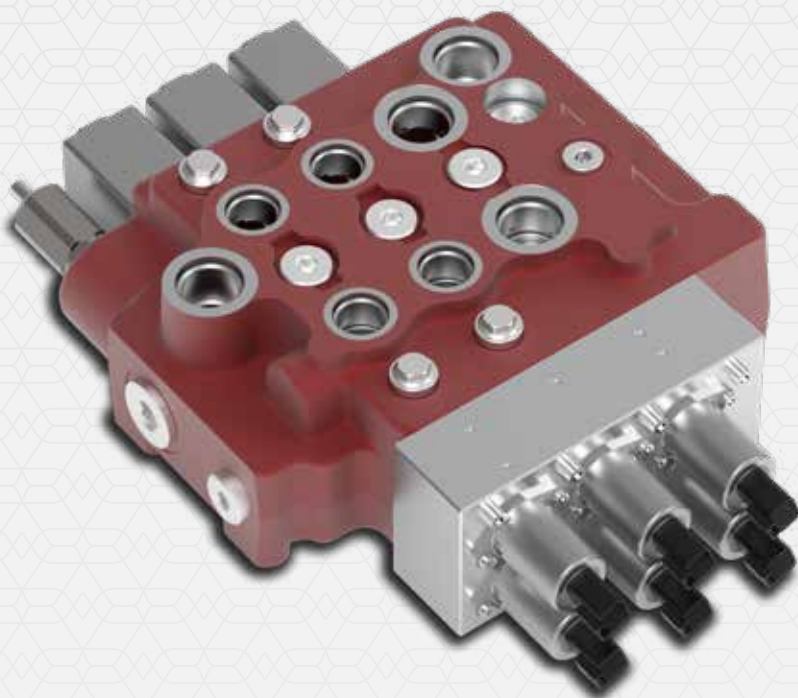


NEW

SDM150

Directional Monoblock Valve
for Skid Steer Loader Applications



SDM150 VALVE

- New directional valve with series circuit, configurable in series/parallel
- Optional floating function on the 1st section
- Arrangement for direct inlet secondary pump on the 3rd section
- Check valves against movement reversal during combined functions
- Optional Port Lock to prevent accidental operation

**Higher controllability for Skid Steer Loader
through Walvoil technologies**



SDM150 DIRECTIONAL MONOBLOCK VALVES

FOR SKID STEER LOADER APPLICATIONS



The new SDM150 valve is a product specifically designed for Skid Steer Loader applications, offering innovative and highly customisable solutions to meet the different needs of OEMs.

With its solid and compact structure, the SDM150 can be configured in different circuit solutions and with various types of controls, making it highly customisable.

WORKING CONDITIONS

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

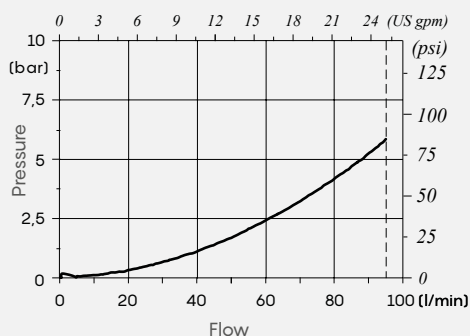
Section number			3
Nominal flow rating	Inlet	on P/P1	95 l/min - 25.1 US gpm
	Inlet	on P2	45 l/min - 11.8 US gpm
Max. pressure			275 bar - 3980 psi
Fluid			Mineral oil-based
Fluid temperature range	With NBR seals (BUNA-N)		from -20°C to 120°C from -4°F to 248°F
	Min.		12 mm ² /s - 12 cSt
Viscosity	Max.		400 mm ² /s - 400 cSt
Max. contamination level			18/16/13 - ISO 4406 NAS 1638 - class 7
Environmental temperature for working conditions			from -30°C to 107°C from -22°F to 224.6°F
Spool stroke			+/- 7 mm - +/- 0.27 in

PORT THREADING

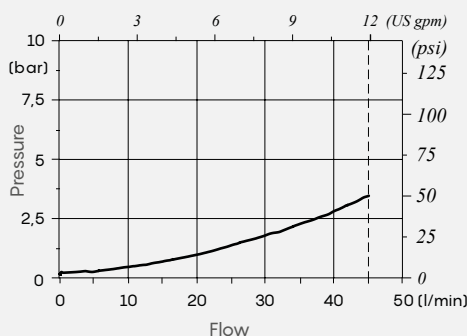
MAIN PORTS		BSP	UN-UNF	METRIC (ISO 262)
Inlet	on P-P1	G3/4	1" 1/6-12 (SAE 12)	M27x2
	on P2	G1/2	7/8-14 (SAE 10)	M22x1.5
Ports	A1/A2 - B1/B2	G1/2	7/8-14 (SAE 10)	M22x1.5
	A3/B3	G3/4	1" 1/6-12 (SAE 12)	M27x2
Outlet	T-T1 (carry over)	G3/4	1" 1/6-12 (SAE 12)	M27x2
Pilot	V (Pilot)	G1/4	7/16-20 (SAE 4)	M14x1.5
	L (Drain)			
	M (Pressure gauge)			
Hydraulic control	V1-V2-V3-V4	G1/4	9/16-18 (SAE 6)	M14x1.5

PERFORMANCE DATA

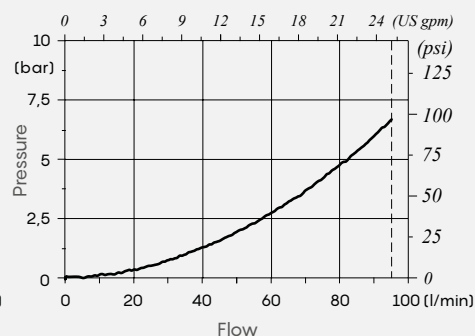
Pressure drop P⇒T



Pressure drop P2⇒T

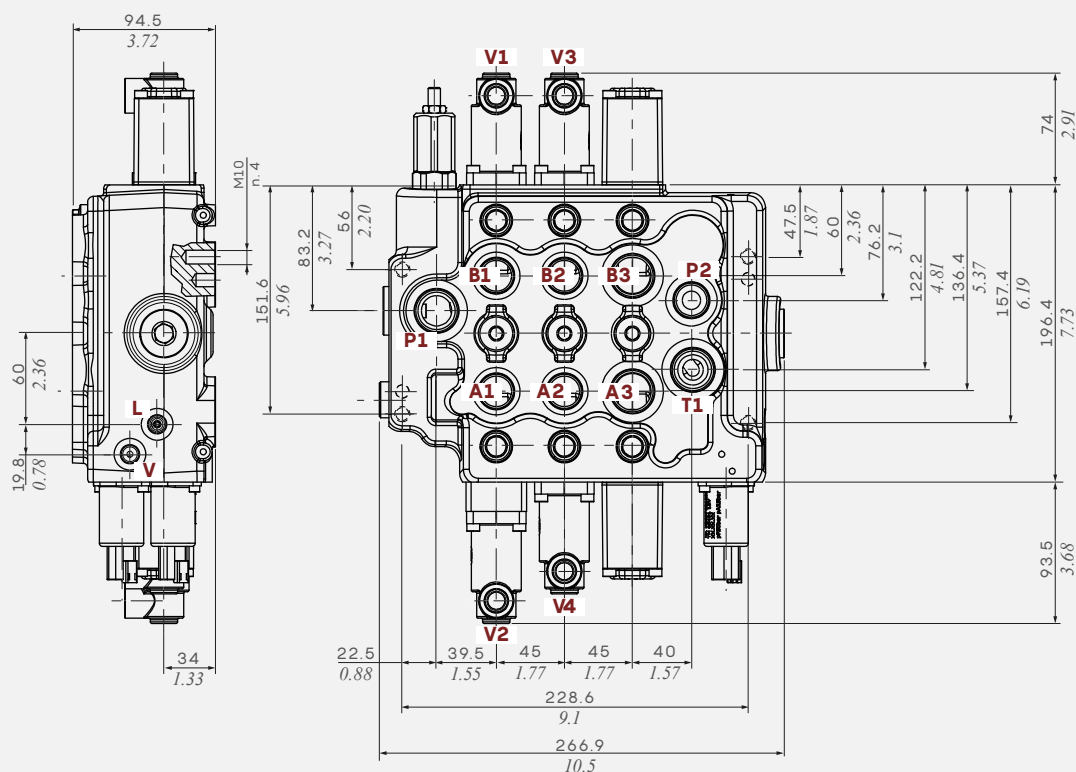


Pressure drop P1⇒T
(float position)

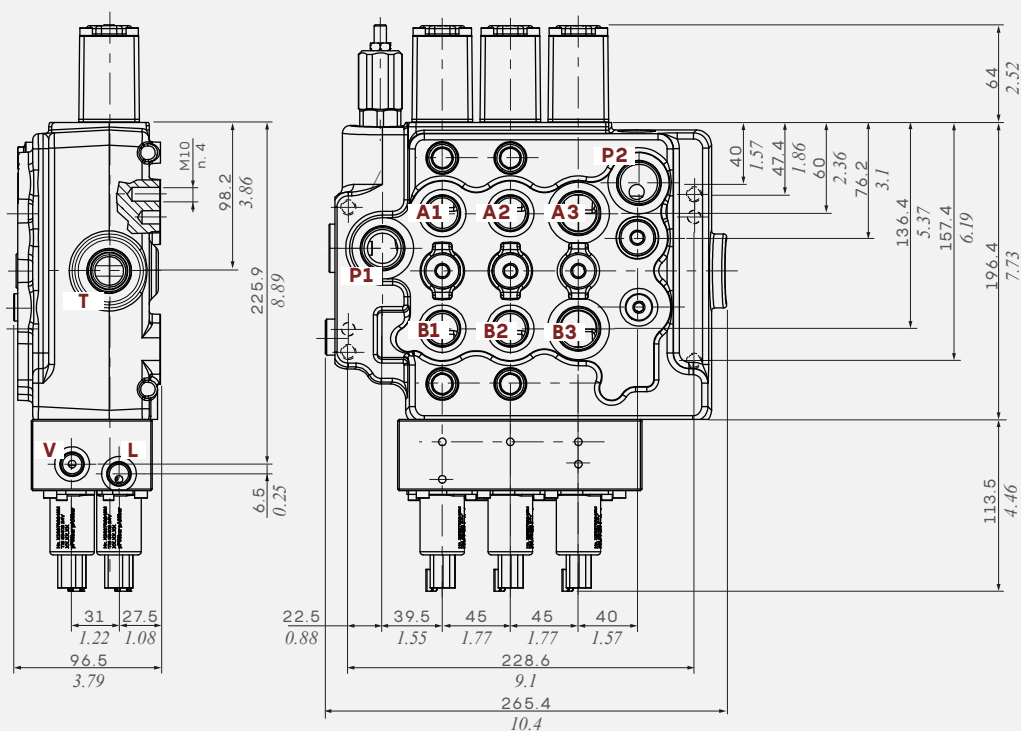


DIMENSIONAL DATA

Example of hydraulic control configuration



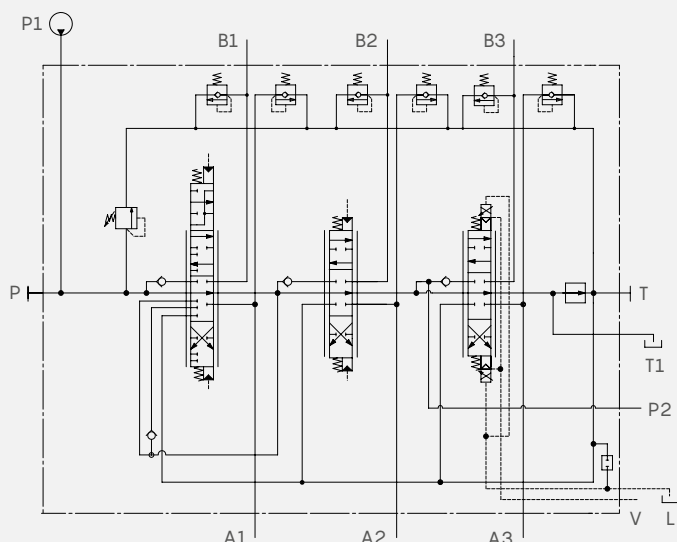
Example of one-side electrohydraulic control configuration(*)



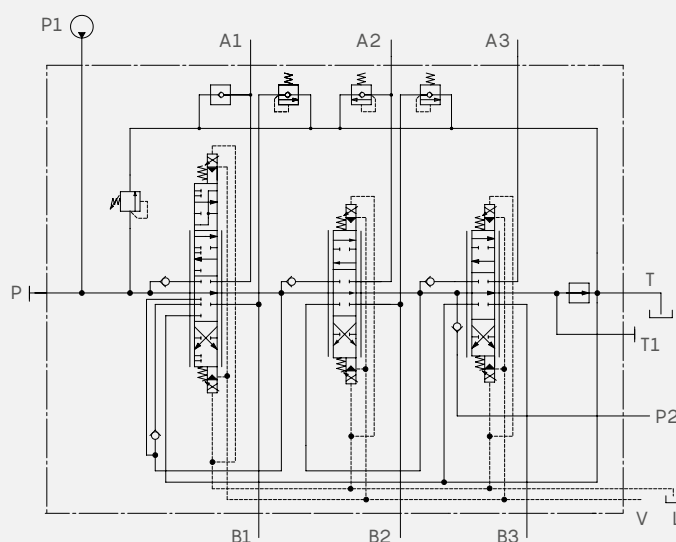
Nota(*) - available also two-side electrohydraulic control

HYDRAULIC CIRCUIT

Example of a hydraulic control circuit



Example of an electrohydraulic control circuit



OPTION

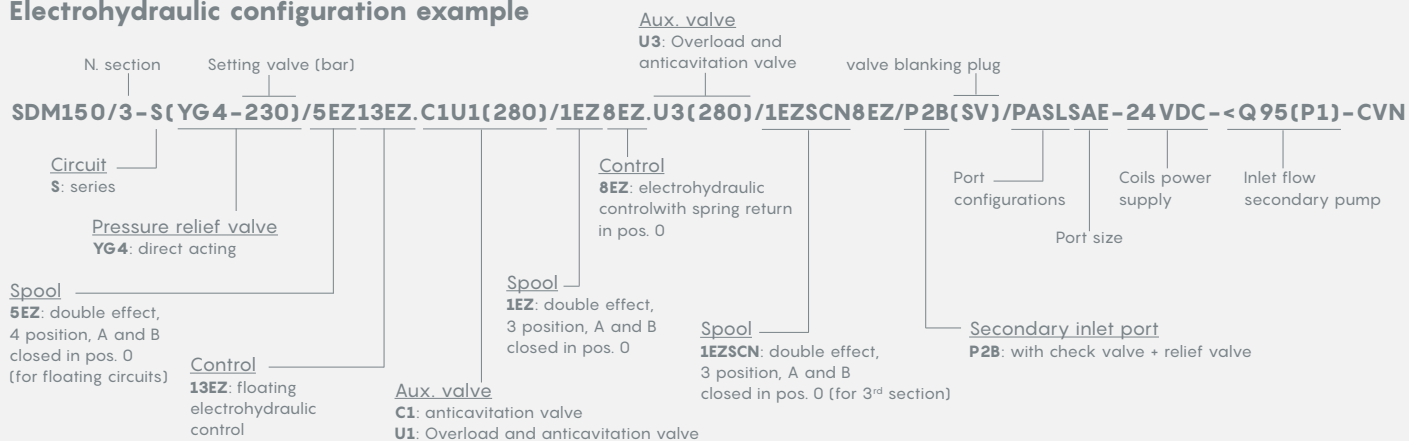
Flanged Port Lock

Port Lock is a special configuration which, when connected to the dead man's switch on the joystick or seat, prevents unwanted machine movements; for example, accidental activation of the joystick when the operator enters the cab.



DESCRIPTION COMPOSITION

Electrohydraulic configuration example



For other configurations, please contact Walvoil Sales Department.

