

product overview



mobile valves

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monoblock valves

KVM05



Accessories

Valve is equipped with an adjustable main relief valve, available in parallel circuit, wide range of spool options and positioners, interchangeable spools

Controls

Manual and remote cable

Section	1	
Weight	2,1 kg	4,62 lbs
Nominal Flow	35 lpm	10 US gpm
Threads	G3/8" (Standard)	SAE8



AMV50



Accessories

Valve is equipped with an adjustable main relief valve, available in parallel and series circuit, load hold check valve, wide range of spool options and positioners, interchangeable Ø16mm spools, carry-over and closed center option

Controls

Manual, pneumatic, electro-pneumatic, hydraulic, electro-hydraulic, solenoid, mechanical joystick, remote cable, inlet proportional and electro-hydraulic proportional

Section	1 - 7	
Nominal Flow	50 lpm	13 US gpm
Threads	G3/8" (Standard)	SAE8
	G1/2" (Standard)	SAE10



AMV70



Accessories

Valve is equipped with an adjustable main relief valve, available in parallel and series circuit, load hold check valve, wide range of spool options and positioners, interchangeable Ø16mm spools, carry-over and closed center option

Controls

Manual, pneumatic, electro-pneumatic, hydraulic, electro-hydraulic, solenoid, mechanical joystick, remote cable, inlet proportional and electro-hydraulic proportional

Section	1 - 7	
Nominal Flow	80 lpm	21 US gpm
Threads	G1/2" (Standard)	SAE10



VM20



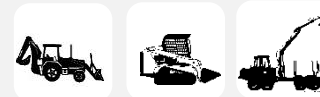
Accessories

Valve is equipped with an adjustable main relief valve, unloading option, load hold check valves in each section, auxiliary valves, wide range of spool options and positioners, interchangeable Ø13mm spools, carry-over and closed center option

Controls

Manual, pneumatic, electro-pneumatic, hydraulic, electro-hydraulic, solenoid, mechanical joystick, remote cable inlet proportional and Electro-Hydraulic Proportional

Section	1 - 6	
Nominal Flow	50 lpm	13 US gpm
Threads	G3/8" (Standard)	SAE8
	G1/2" (Standard)	SAE10



KVM16



Accessories

Valve is equipped with an adjustable main relief valve, load hold check valves in each section, auxiliary valves, wide range of spool options and positioners, interchangeable Ø19mm spools, carry-over and closed center option

Controls

Manual, pneumatic, electro-pneumatic, hydraulic, electro-hydraulic, solenoid, mechanical joystick, remote cable and electro-hydraulic proportional

Section	2 - 3	
Nominal Flow	100 lpm	26 US gpm
Threads	G3/4" (Standard)	SAE12



sectional valves

KV17



Accessories

Valve is equipped with an adjustable main relief valve, unloading option, available in parallel, series, tandem circuit, load hold check valves in each section, auxiliary valves, wide range of spool options and positioners, interchangeable Ø16mm spools, carry-over and closed center option, load sense option

Controls

Manual, pneumatic, electro-pneumatic, hydraulic, electro-hydraulic, solenoid, mechanical joystick, remote cable and inlet proportional, electro-hydraulic proportional

Section	1 – 9	
Nominal Flow	80 lpm	21 US gpm
Threads	G1/2" (Standard)	SAE10
	G3/4" (Standard)	SAE12



KV18



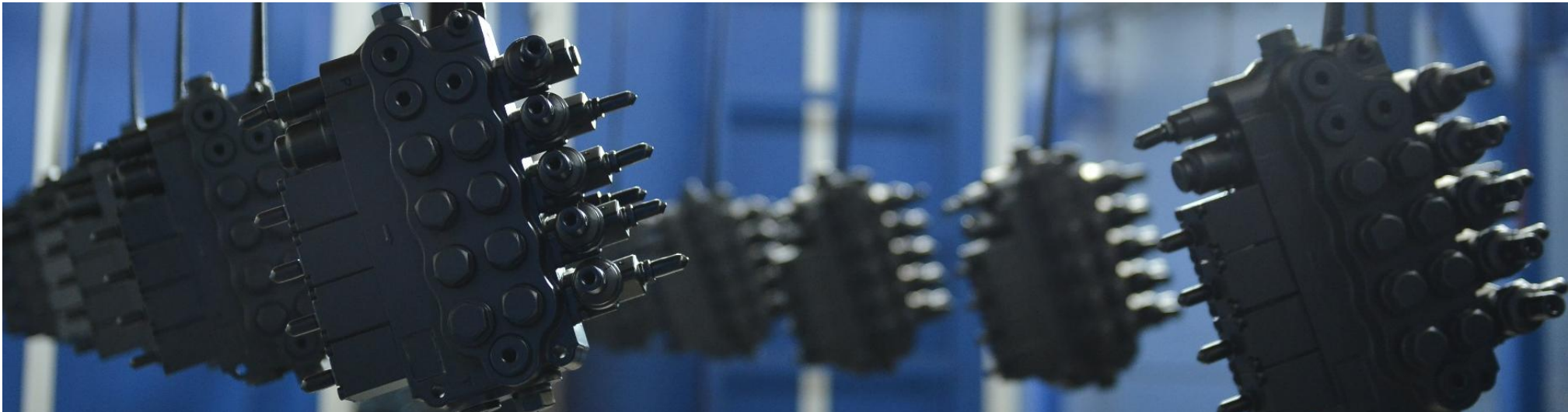
Accessories

Valve is equipped with an adjustable main relief valve, available in parallel, series, tandem circuit, load hold check valves in each section, auxiliary valves, wide range of spool options and positioners, interchangeable Ø19mm spools, carry-over and closed center option

Controls

Manual, pneumatic, electro-pneumatic, hydraulic, electro-hydraulic, mechanical joystick, remote cable and inlet proportional, electro-hydraulic proportional

Section	1 – 9	
Nominal Flow	100 lpm	26 US gpm
Threads	G3/4" (Standard)	SAE12



KV19



Accessories

Valve is equipped with an adjustable main relief valve, available in parallel circuit, load hold check valves in each section, auxiliary valves, wide range of spool options and positioners, interchangeable Ø19mm spools, carry-over and closed center option

Controls

Manual, pneumatic, electro-pneumatic, hydraulic, electro-hydraulic, mechanical joystick, remote cable and electro-hydraulic proportional

Section	1 – 9	
Nominal Flow	110 lpm	30 US gpm
Threads	G3/4" (Standard)	SAE12



KV20



Accessories

Valve is equipped with an adjustable main relief valve, available in parallel, series tandem circuit, load hold check valves in each section, auxiliary valves, wide range of spool options and positioners, interchangeable Ø19mm spools, carry-over and closed center option, Load sense option

Controls

Manual, pneumatic, electro-pneumatic, hydraulic, electro-hydraulic, mechanical joystick, remote cable and inlet proportional

Section	1 – 9	
Nominal Flow	150 lpm	40 US gpm
Threads	G3/4" (Standard)	SAE12
	G1" (Standard)	SAE16



LVM92



Product Features

LVM92 is a perfect control valve for front-end loaders for both open and closed center Systems for flow rates 90lpm and operating pressure up to 250bar.

With the unique rear port construction, the valve is ready to accept multi quick couplings, ports are positioned for easy piping and easy assembly of the cable control wires.

LVM92 offers excellent operating characteristics with minimum spool leakage.

Accessories

Valve is equipped with an adjustable main relief valve and load hold check valves in each section, auxiliary valves, Load sense option offers improved control and efficiency.

Controls

Manual, Remote Cable Control

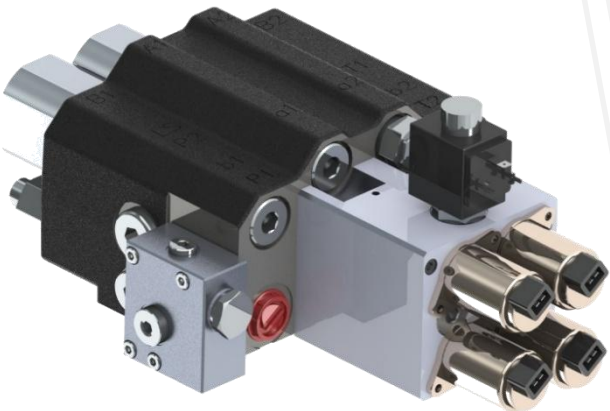


Section	2	
Nominal Flow	90 lpm	24 US gpm
Maximum Working Pressure	250 bar	3600 psi
Maximum Internal Leakage	2 cc (100 Bar; 46 cSt, 40°C)	0,12 in3/m (1450 psi; 46 cSt, 104°F)
Threads	G1/2" (Standard)	SAE10



LVM92-EHP

Electro-Hydraulic Proportional



Product Features

LVM92-EHP is a monoblock front loader valve for open and closed center systems offering excellent proportional operating characteristics and easy fit for flow rates up to 90 lpm and operating pressures up to 250 bar.

The valve offers fully proportional control including the float function regardless of machine load and operating conditions.

LVM92 offers excellent operating characteristics with minimum spool leakage.

Accessories

Valve is equipped with an adjustable main relief valve and load hold check valves in each section, auxiliary valves, Load sense option offers improved proportional control and efficiency.

Offered as complete kit including valve, proportional joystick, harness and software.

Controls

Electro-hydraulic proportional



Section	2	
Nominal Flow	90 lpm	24 US gpm
Maximum Working Pressure	250 bar	3600 psi
Maximum Internal Leakage	3 cc (100 Bar; 46 cSt, 40°C)	0,18 in3/m (1450 psi; 46 cSt, 104°F)
Threads	G1/2" (Standard)	SAE10

SPV120

PRE-COMPENSATED LOAD SENSING
PROPORTIONAL VALVE

TECHNICAL SPECIFICATIONS

Number of Spools	1 - 12		
Maximal Flow in GPM		150 gpm	48 US gpm
Maximal Flow in PPH	Compressed	120 gpm	24 US gpm
Maximal Flow in PPH	Not Compressed	140 gpm	27 US gpm
Maximum Working Pressure	Port P, A/B	360 bar	5075 psi
	Control Port A/B	430 bar	6030 psi
	Port L/S	290 bar	4075 psi
Maximum Back Pressure		20 bar	285 psi
Maximum Internal Leakage	Without Check Valves	12 cc	0.73 in ³ /rev
	With Check Valves	18 cc	0.92 in ³ /rev



LOAD INDEPENDENT PROPORTIONAL CONTROL

SPV120 provides flow control independent of load pressure from 5 to 120 bar.

ADVANCED CUSTOMIZED CONTROL

Thanks to the careful design engineering SPV120 offers advanced customized control with antishock & ant cavitation valves, LSA/LSD pressure relief valves, spool stroke limiters, precise spool adjustments specific for the application requirements. The valve completes advanced control abilities through various actuator options: manual, hydraulic proportional, PWM, Voltage and CANbus proportional control for open and closed loop systems.

PRECISE CONTROL AND EFFICIENCY

SPV120 offers precise control and efficiency with for a wide range of applications from mobile cranes, fire engine, agricultural machineries, aerial platforms & lifts, concrete pumps to mining and drillings machines. Energy saving Load Sensing technology increase efficiency.

ACCESSORIES

Adjustable main and LS relief valve, inlet with electro-hydraulic module, additional safety valve, inlet for fixed or variable displacement pumps with or without electro-hydraulic module, 2 way pressure compensators, wide range of spool and manual & electronic actuator types, steel and cast iron lever controls with spool stroke limiters, LSA/LSD relief valves, antishock valves.

ACTUATORS

- Open Loop Electro-Hydraulic PWM Proportional Control
- Close Loop Electro-Hydraulic Proportional Control
- Digital control w/ +5V auxiliary power supply for the control potentiometer
- Digital control w/ 0-5V spool position feedback output
- Digital control w/ CANbus

ELECTRONIC CONTROL UNITS

- Joystick Control (Potentiometric, Hall Effect)
- Radio Remote Systems
- Machine Management Systems
- Drivers
- Sensors

About Us

Ever since the establishment of our Company in 1980, we are dedicated to design & manufacture high quality and reliable directional control valves for mobile equipments. with our integrated production from design to after sales service, we provide customized solutions for a wide range of mobile applications.

Innovation is our passion

Our R&D studies focus on customized products & solutions that reduce energy consumption, improve control ability and performance.

Foundry

In AKON Foundry, we concentrate on providing a reliable experience to our customers through high quality valve castings.

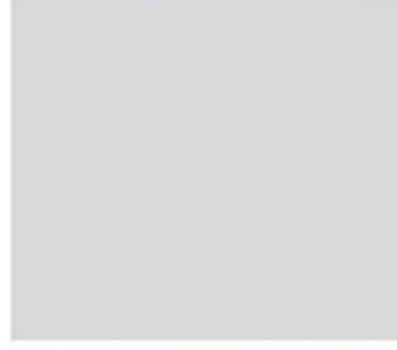
Export

We are sharing a World of experience in more than 40 countries since 2001.

Quality, Environment & Safety

Quality culture in AKON is concentrated on «Continous Improvement» and reaching %100 accurate production at first time. Our well established Quality Assurance system is accredited with ISO 9001 in 2003, our environmental awareness accredited with ISO 14001 and our awareness for occupational health and safety accredited with OHSAS 18001 by international authorities.

about AKON



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