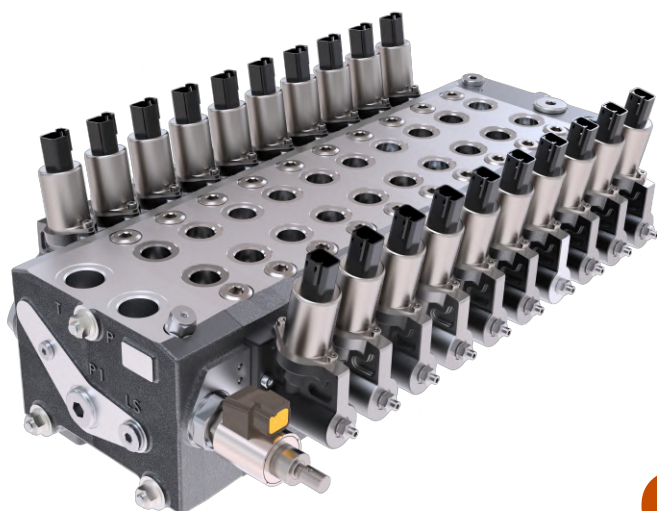




SPX80

Proportional
Flow Sharing
Valve

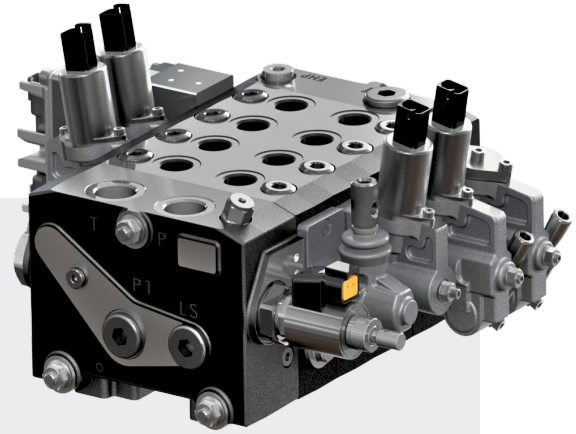


Proportional Flow Sharing Valve

SPX80

PRODUCT FEATURES

SPX80 is stackable, load sensing, flow sharing proportional valve for fixed and variable pumps. The valve designed for high accuracy and offers precise movement and stability in wide range of applications.



FLOW SHARING TECHNOLOGY

Thanks to smart engineering, SPX80 combines pre-compensated and post-compensated working sections on same interface to improve control capabilities. The flow sharing technology offers multiple movements simultaneously. SPX80 benefits high flexibility with common body and interchangeable components of pre and post compensation.

FLEXIBILITY AND EFFICIENCY

- The valve designed for maximum user comfort, high efficiency and less energy consumption.
- SPX80 offers maximum control ability even in high saturation through pressure compensators in each section.
- Super easy and user friendly to switch the inlet section from fixed and variable pump.
- Symmetric design enables high flexibility and easy installation.
- Common stroke in both pre & post compensation provides the benefit of interchangeable actuators.
- SPX80 offers wide range of actuators, on/off, hydraulic, PWM, Voltage and CANBus proportional controls for open and closed loop systems with integrated safety lever.
- AKON Closed Loop Actuator System (ACAS) perfectly integrated with SPX80 offering excellent electronic flow sharing control.
- Modular structure enables unlimited configurations to the user with less effort.

MAIN APPLICATIONS



Technical Data

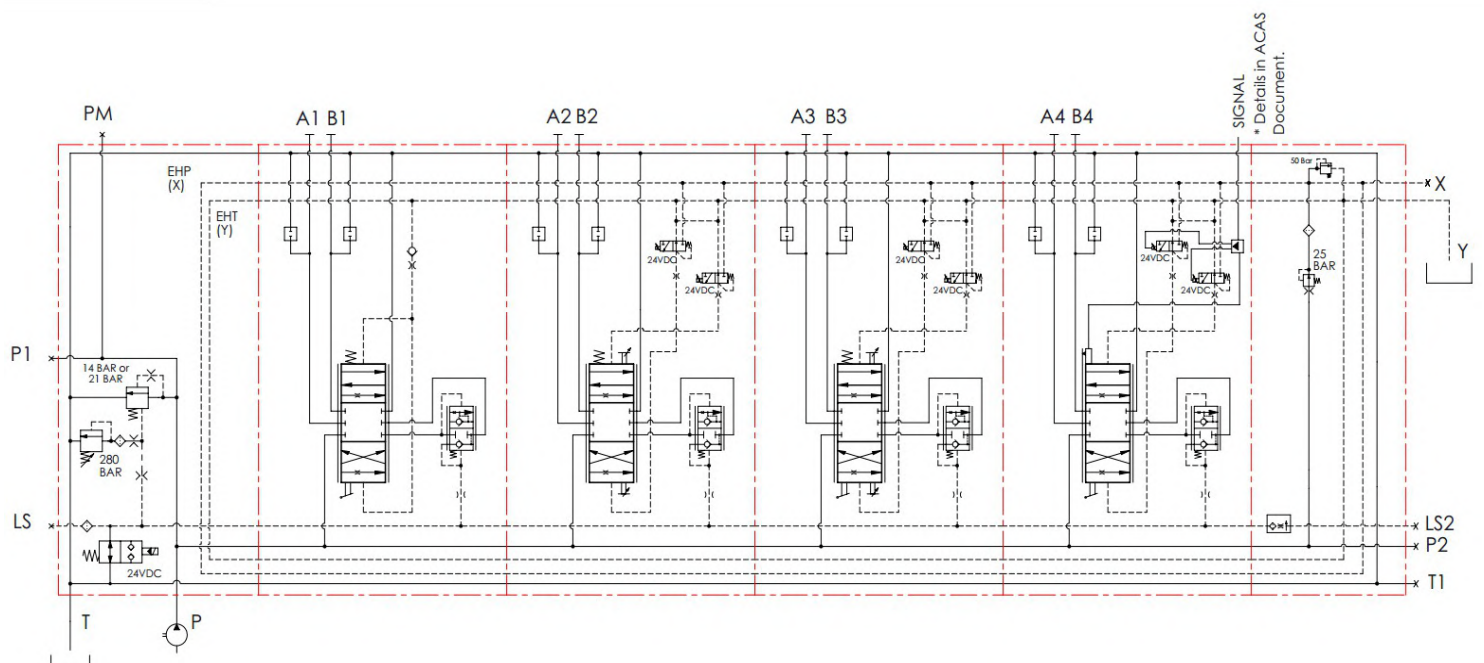
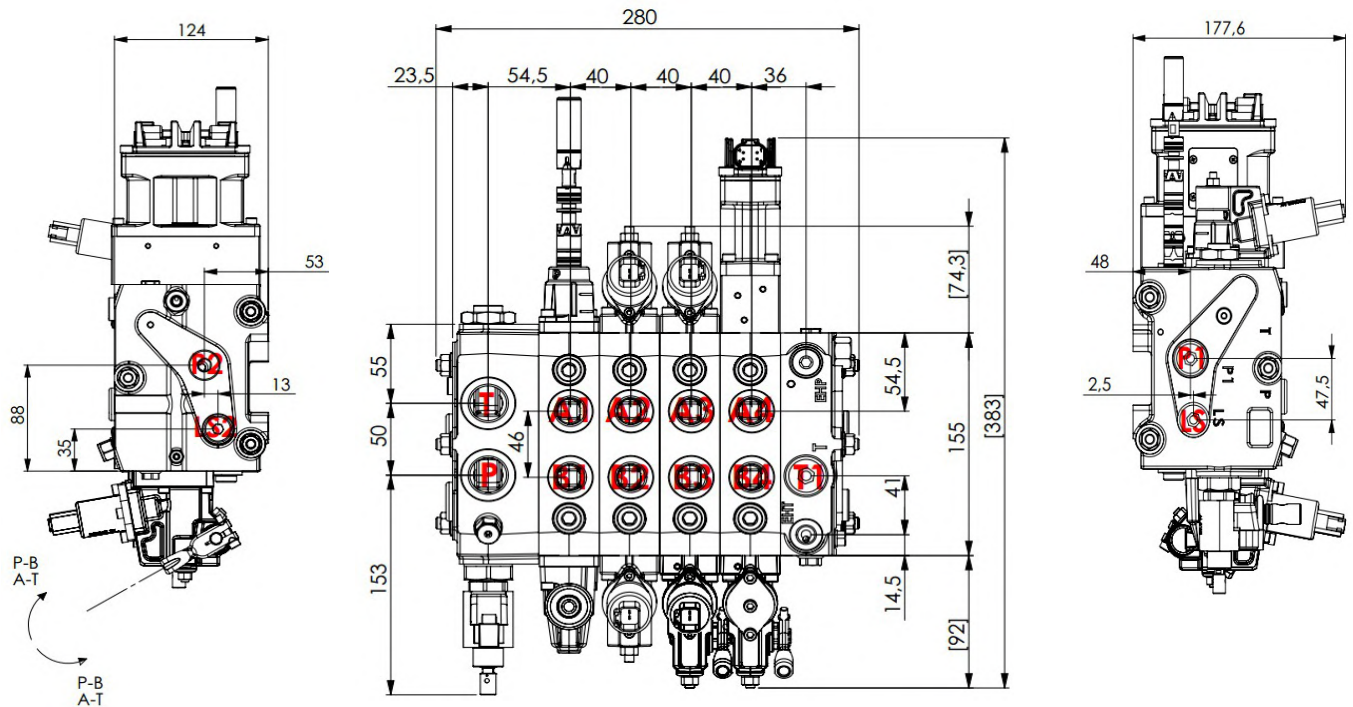
SPX80

NUMBER OF SPOOLS	1 - 12	
NOMINAL FLOW ON INLET	120 lpm / 32 gpm	
NOMINAL FLOW ON PORT	Pre-Compensated	60 lpm / 16 US gpm @ 14 bar ΔP
	Post-Compensated	60 lpm / 16 US gpm @ 14 bar ΔP 80 lpm / 21 US gpm @ 21 bar ΔP
MAXIMUM WORKING PRESSURE	Port A/B Continuous	350 bar / 5075 psi
	Port A/B	420 bar / 6090 psi
	Port LS	350 bar / 5075 psi
MAXIMUM BACK PRESSURE	50 bar / 725 psi	
MAXIMUM INTERNAL LEAKAGE	Without Shock Valves	15 cc 100 bar; 32 cSt, 40°C 0,92 in3m 1450 psi; 32 cSt, 104°F
	With Shock Valves	18 cc 100 bar; 32 cSt, 40°C 1,09 in3m 1450 psi; 32 cSt, 104°F
SPOOL TRAVEL	Spool Travel	± 7,0 mm
	Dead Band	± 1,5 mm
	Proportional Range	± 5,5 mm
PORT THREADS (A/B)	A/B - G 1/2" P/T - G 3/4"	Please ask for other thread options



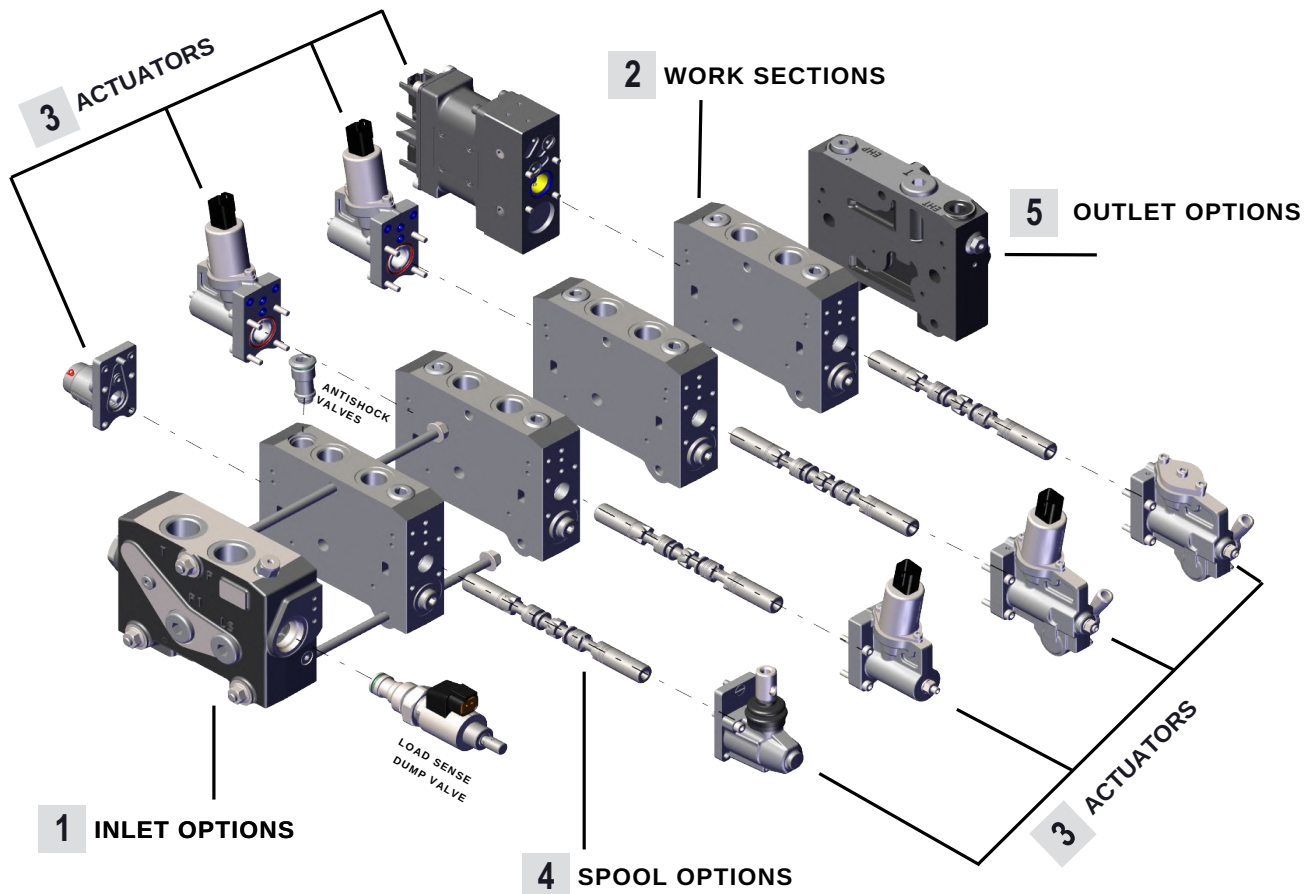
Dimensional Data

SPX80



Features & Options

SPX80



1 INLET OPTIONS

INLET PUMP TYPE

Fixed Displacement Pump
Variable Displacement Pump

LOAD SENSE RELIEF VALVE SETTING

80 - 380 bar adjustable

LOAD SENSE DUMP VALVE

Without load sense dump valve
Normally open, 12 VDC Deutsch type with manual override
Normally open, 24 VDC Deutsch type with manual override
Normally closed, 12 VDC Deutsch type with manual override
Normally closed, 24 VDC Deutsch type with manual override

2 WORK SECTIONS

SECTION TYPE

Pre-compensated
Post-compensated
Check valve only
Flow

SHOCK VALVE

Cavity plug
80 - 380 bar antishock valve
Anticavitation valve

LS RELIEF VALVE (OPTIONAL)

Without LS relief valve cavity (Standard)
Cavity plug
80 - 380 bar adjustable LS relief valve

Features & Options

SPX80

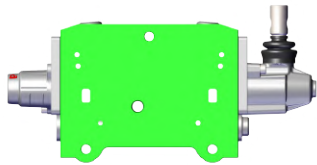
3 ACTUATORS

MECHANICAL CONTROLS

A SIDE MECHANICAL CONTROLS

- Spring Return to Neutral
- Mechanical detent in all positions
- Hydraulic pilot on-off
- Hydraulic pilot proportional
- Pneumatic on-off
- Electro-pneumatic on-off
- Microswitch

A SIDE



B SIDE

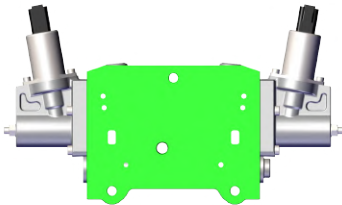
B SIDE MECHANICAL CONTROLS

- Standard lever cap
- Standard lever cap
- Dust proof plate
- Mechanical joystick
- Cable connection kit

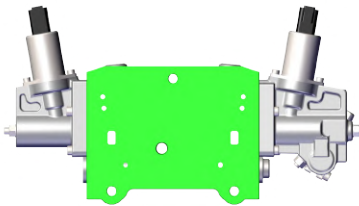
COMPLETE ELECTRO-HYDRAULIC PROPORTIONAL ACTUATORS

OPEN LOOP

Open loop PWM,
12 VDC / 24 VDC
without safety lever



Open loop PWM,
12 VDC / 24 VDC
with safety lever

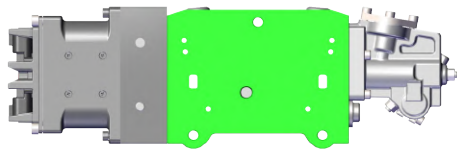
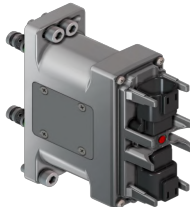


CLOSED LOOP

AKON Closed Loop Actuator System

- ACAS 12 VDC / 24 VDC Closed loop CANBus
- ACAS 12 VDC / 24 VDC Closed loop Ratiometric
- ACAS 12 VDC / 24 VDC Closed loop Voltage (10V)
- ACAS 12 VDC / 24 VDC Closed loop Voltage (5V)
- ACAS 12 VDC / 24 VDC Closed loop Voltage PWM

ACAS



On board microswitch and electronic float are optional, please ask for details.

With different hardware and software features, ACAS offers you different possibilities.

COVER TYPES	Sticker	ADDITION	Hardware Properties	Software Properties
Can	C	-	Can - Chain	CanOpen & J1939
PWM	P	Microswitch	-	Dualcore & Monocore
Analog	A	Microswitch	Adc (for 0-10 Vdc)	0-5 Vdc & 0-10 Vdc
Ratiometric	R	Microswitch	Adc (for 0-32 Vdc)	-

Features & Options

SPX80

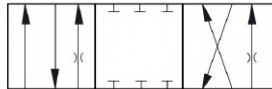
4 SPOOL OPTIONS

SPOOL FLOW RATE (P-A / P-B & A-T / B-T)

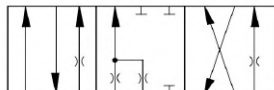
5, 10, 15, 30, 45, 60, 80 LPM

SPOOL TYPES

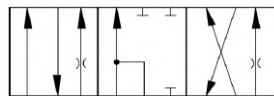
A/B closed in neutral



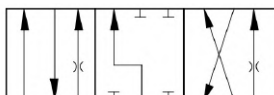
A/B partially open to tank in neutral



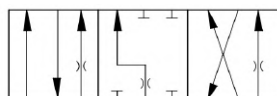
A/B open to tank in neutral



A open to tank, B closed in neutral



A partially open to tank, B closed in neutral



5 OUTLET SECTION

CONFIGURATION

P, T, LS Plugged

P, T, LS Plugged with internal drain line

T, LS Plugged with dump valve

T, LS Plugged pilot operated



export@akon.com.tr

www.akon.com.tr