Compu-Spread SCB
Sander Control Block

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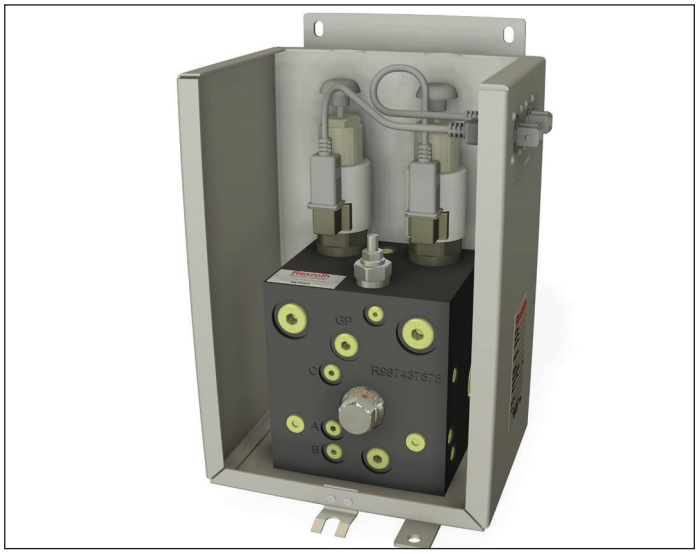

▶ **2 Function Sander Control Block (spinner and conveyor/auger), with optional stainless steel enclosure. Shown with valves for open centre.**

▶ **3 Function Sander Control Block (spinner, conveyor/auger and liquid), with optional stainless steel enclosure. Shown with valves for open.**

Rexroth's SCB manifold assemblies are designed for the control of primary sander functions. The 2 function version is for auger/conveyor and spinner; the 3 function version for auger/conveyor, spinner and liquid (pre-wet or anti-icing). They are sized for pressures and flow rates commonly required in modern snow and ice control systems. Accurate speed control of the hydraulic motors is guaranteed by the use of individual pressure compensated proportional valves. Both 2 and 3 function assemblies can be supplied for open and closed centre systems.

Open centre systems (with fixed displacement pump) have an unloading valve which directs pump flow to tank when no functions are required. When activated, the load pressure signal is sent to the unloader so that system pressure is just above load pressure, ensuring the maximum efficiency possible with these circuits. These assemblies also provide primary system pressure relief.

Closed centre systems (with variable displacement load sensing pumps) typically provide even higher system efficiency. In this version the load pressure signal is sent to the pump controller, so that it de-strokes at standby pressure when no functions are required.

Maximum environmental protection is provided when the manifolds are installed in a stainless steel enclosure.

Features

- High performance cartridge valves provide accuracy, reliability and enhanced serviceability.
- Anodized aluminum manifold provides good environmental protection.
- All main fluid ports are on one surface, facilitating plumbing to actuators and other devices.
- Stainless steel enclosure solutions afford great protection from harsh environments.

Technical Data

Specifications		
Maximum Operating Pressure	210 bar	3000 psi
Maximum Inlet Flow Rate	115 L/min	30 USGPM
Maximum Flow to Spinner	40 L/min	10.5 USGPM
Maximum Flow to Conveyor	80 L/min	21 USGPM
Maximum Flow to Liquid (3 Function only)	40 L/min	10.5 USGPM
Fluid	Mineral Oil or ATF	
Fluid Operating Temperature Range	-30° to 100° C	-22° to 212° F
Fluid Cleanliness Recommendation	per ISO 4406 (c): 19/17/14	
Fluid Viscosity	5 to 400 cSt (10 to 100 preferred)	42 to 2000 SUS (60 to 500 preferred)
Electrical, per Solenoid	400 to 1,800 mA, 12 VDC	100 Hz PWM (dither) frequency

Fluid Connections (N.B. all ports are not used in all versions)	**2 Function SCB-2**	**3 Function SCB-3**
Pressure, Tank (P, T)	#16 SAE “O” Boss	#16 SAE “O” Boss
Conveyor (C)	#10 SAE “O” Boss	#10 SAE “O” Boss
Spinner (S), Liquid (PW, 3 Function only)	#8 SAE “O” Boss	#8 SAE “O” Boss
Load Sense Port (LS)	#6 SAE “O” Boss	#6 SAE “O” Boss
Gauge (GP)	#6 SAE “O” Boss	#4 SAE “O” Boss
Drain (Y)	#6 SAE “O” Boss	

Dimensions		
Enclosure Overall (W x H x D)	235 x 362 x 211 mm (9.3 x 14.3 x 8.3 inches)	235 x 362 x 211 mm (9.3 x 14.3 x 8.3 inches)
Manifold Overall (c/w Components, W x H x D)	135 x 287 x 117 mm (5.3 x 11.3 x 4.6 inches)	172 x 287 x 117 mm (6.8 x 11.3 x 4.6 inches)
Weight (Assembly with Enclosure)	12 kg (26 pounds)	15 kg (33 pounds)

Environmental
Manifold is made of aluminum, anodized after machining. All cartridge valves are suitable for outdoor use. Installation in the optional sealed stainless steel enclosure will extend the life of all external surfaces and components, which would otherwise be exposed to the harsh environment found in snow and ice control applications.

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