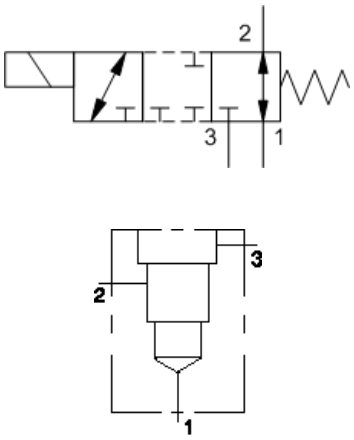
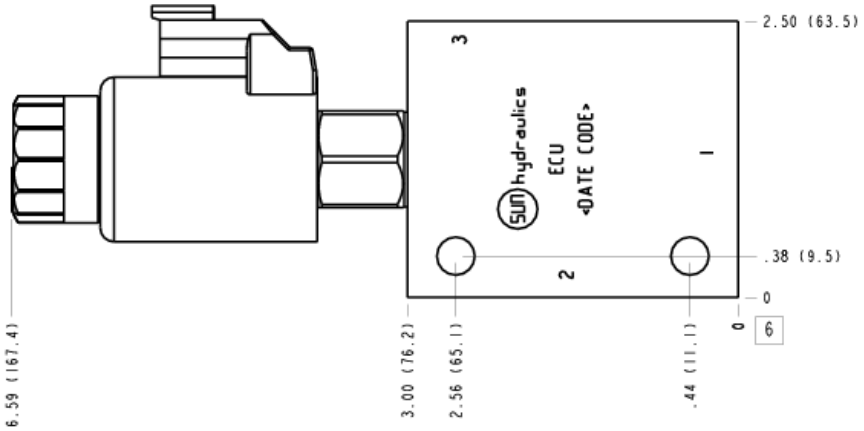
MODEL
DMDAXBV924-ECU

3-way, solenoid-operated directional spool valve
CAPACITY: 45 L/min. | CAVITY: T-11A





CARTRIDGE CONFIGURATION

X	Control	No Manual Override
B	Spool Configuration	Normally Open 1 to 2, Closed 2 to 3, Closed Transition
V	Seal Material	Viton
924	Material/Coating	

MANIFOLD CONFIGURATION

(none)	Modifier	6061-T651 Aluminum, Buna-N

PORT HEADINGS AND SIZES

Modifiers	Ports
ECU, /10, /11, /S, /S3	Ports 1 & 2: 3/8" BSPP; Port 3: 1/4" BSPP;

NOTES

Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.

An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

Important: Carefully consider the maximum system pressure. The pressure rating of the manifold is dependent on the manifold material, with the port type/size a secondary consideration. Manifolds constructed of aluminum are not rated for pressures higher than 3000 psi (210 bar), regardless of the port type/size specified.

This solenoid-operated 3-way, 2-position cartridge is a direct-acting, balanced spool directional valve.

CARTRIDGE TECHNICAL DATA

Cavity	T-11A
Series	1
Capacity	45 L/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	80 cc/min.@210 bar
Manual Override Force Requirement	33 N/100 bar @ Port 1
Manual Override Stroke	2,5 mm
Response Time - Typical	50 ms
Switching Frequency	15,000 max. cycles/hr
Solenoid Tube Diameter	19 mm
Valve Hex Size	22,2 mm
Valve Installation Torque	41 - 47 Nm
Seal kit - Cartridge	Buna: 990-411-007
Seal kit - Cartridge	EPDM: 990-411-014
Seal kit - Cartridge	Viton: 990-411-006
Seal and nut kit - Coil	Viton: 990-770-006
Model Weight	0.58 kg.

MANIFOLD TECHNICAL DATA

Body Type	Line mount
Interface	None
Body Features	Ninety degree
Mounting Hole Diameter	8.6 mm
Mounting Hole Depth	Through
Mounting Hole Quantity	2

Open Cavities	1
Cavity	T-11A
Port Size	3/8" BSPP
Model Weight	0.33 kg.

CARTRIDGE TECHNICAL FEATURES

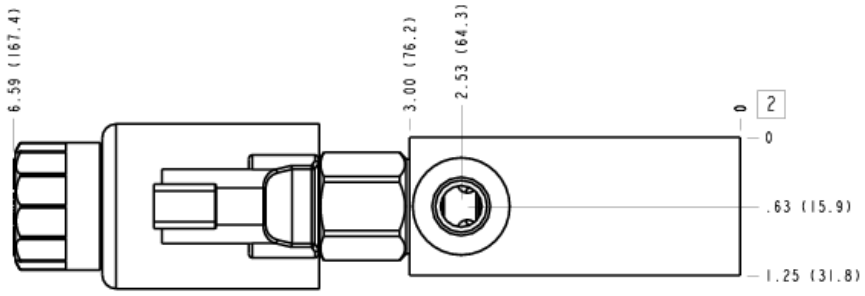
- The solenoid tube assembly is fatigue rated for 5000 psi (350 bar) service.
- Spools B and R are closed in the transition between their two positions. This results in a higher performance limit at the expense of lower capacity. When used as pilot controls, where capacity is not a factor, the closed transition will provide faster and more consistent response times.
- This valve is direct actuated and requires no minimum hydraulic pressure for operation.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- On models equipped with the D or L control, the detent mechanism in the manual override is meant for temporary actuation. The D, L and T manual control assemblies have a mechanical life expectancy of approximately 7,000 cycles.
- This valve utilizes a wet armature design. This means that the working fluid surrounds the armature and is exposed to the heat generated by the coil. This can be a factor if the coil is energized for long periods of time. Some fluids, notably water/glycol mixtures, break down at these temperatures over time and form varnishes that will affect the function of the cartridge.
- Coils are interchangeable with other Sun Series 1 solenoid products and can be mounted on the tube in either direction.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

ASSEMBLY FACES

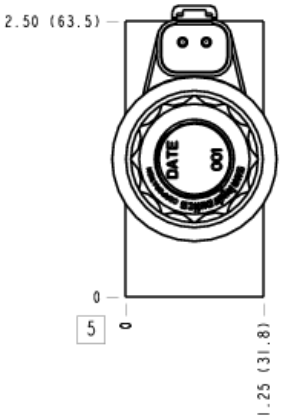
FACE GRID

1	2	3	4
5	6	7	8
9	10	11	12

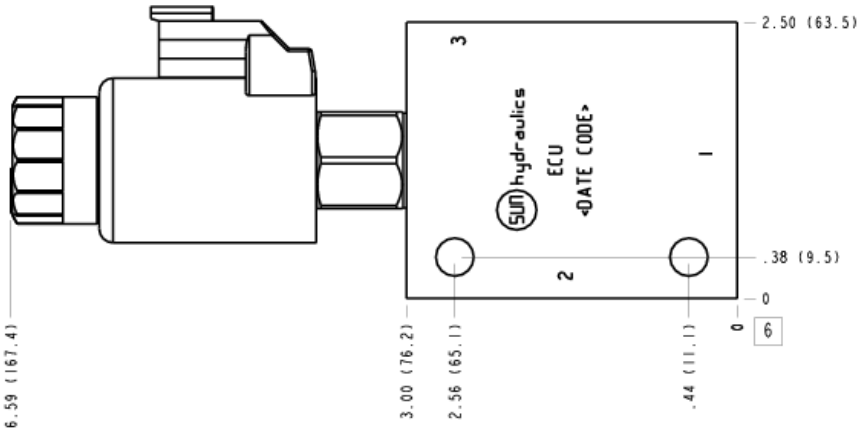
Face 2



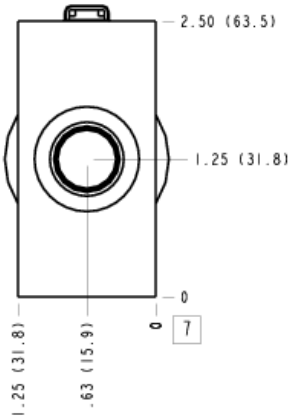
Face 5



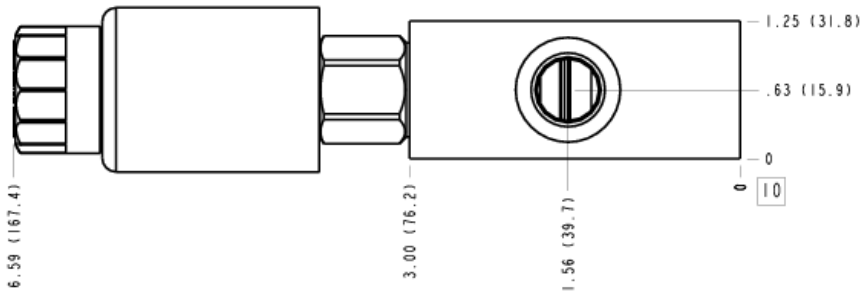
Face 6



Face 7



Face 10



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