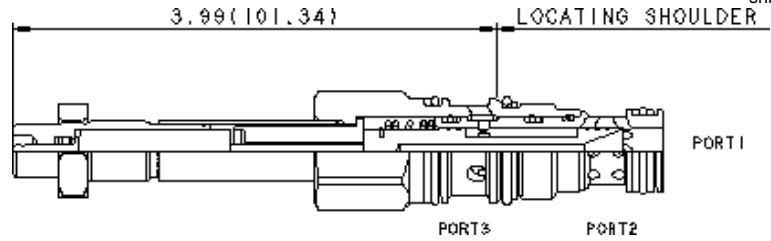


M-Control, A-Spool



**CONFIGURATION**

<b>M</b>	Control	Manual Override
<b>A</b>	Spool Configuration	Normally Open 1 to 2, Closed 2 to 3
<b>N</b>	Seal Material	Buna-N
<b>(none)</b>	Coil	No coil

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

**TECHNICAL DATA**

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-11A
Series	1
Capacity	40 L/min.
Maximum Operating Pressure	250 bar
Response Time - Typical	50 ms
Maximum Valve Leakage at 110 SUS (24 cSt)	80 cc/min. @210 bar
Manual Override Force Requirement	66 N/100 bar @ Port 1
Manual Override Stroke	2,5 mm
Switching Frequency	15,000 max. cycles/hr
Solenoid Tube Diameter	12,7 mm
Valve Hex Size	22,2 mm
Valve Installation Torque	41 - 47 Nm
Seal kit - Cartridge	Buna: 990811007
Seal kit - Cartridge	Viton: 990811006
Model Weight	0.20 kg.

**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.

**CONFIGURATION OPTIONS**

**Model Code Example: DMDBMAN**

CONTROL	(M) SPOOL CONFIGURATION	(A) SEAL MATERIAL	(N) COIL *
<b>M</b> Manual Override	<b>A</b> Normally Open 1 to 2, Closed 2 to 3	<b>N</b> Buna-N	<b>No coil</b>
X No Manual Override	N Normally Open 2 to 3, Closed 1 to 2	V Viton	* Additional coil options are available

**TECHNICAL FEATURES**

- This valve is direct actuated and requires no minimum hydraulic pressure for operation.
- The solenoid tube assembly is fatigue rated for 3600 psi (250 bar) service.
- Port 2 and 3 are the preferred inlets for this valve. Port 1 has limited capacity.
- 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.
- 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.

**PERFORMANCE CURVES**

