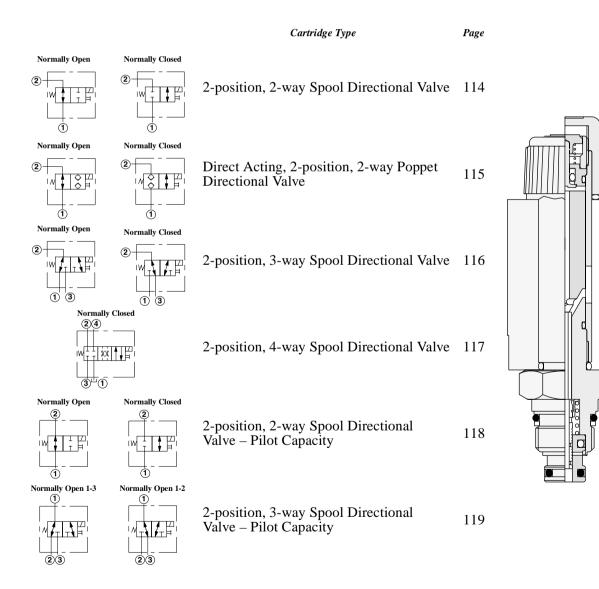
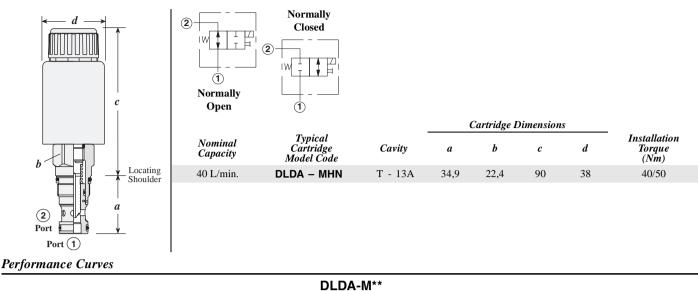
# Solenoid Operated Cartridge Valves

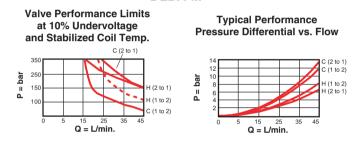


UK Shortcut Catalogue #999-901-244

SUN

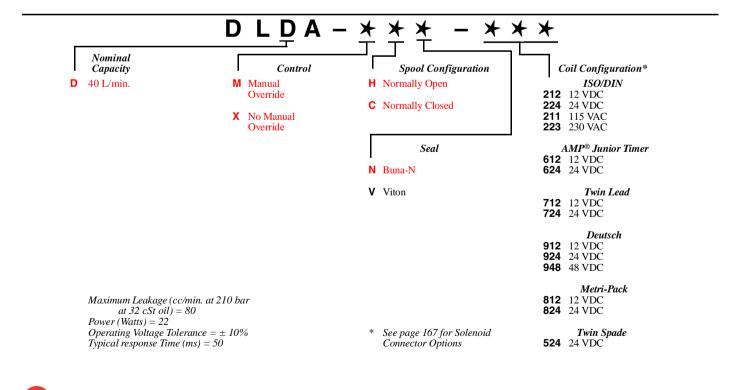
## Solenoid Operated Cartridge Valves 2-POSITION, 2-WAY SPOOL DIRECTIONAL VALVE





- Maximum operating pressure = 350 bar\*\*
- Maximum Leakage at 32 cSt = 81.9 cc/min. at 210 bar .
- Switching frequency = 15000 cycles/hr -
- -Proper installation of solenoid valves requires an extra deep socket to clear the solenoid tube. Sockets are available from Snap On tools (P/N SIML280) or Sun Hydraulics (P/N 998-100-006). See <u>www.sunhydraulics.com</u> for details.

\*For valves produced before January 1, 2004 (date code A041), the maximum operating pressure is 350 bar at port 2 and 250 bar at port 1. NOTE: While the valve will operate reliably with pressures up to 350 bar at Port 1, solenoid tube fatigue life is reduced.

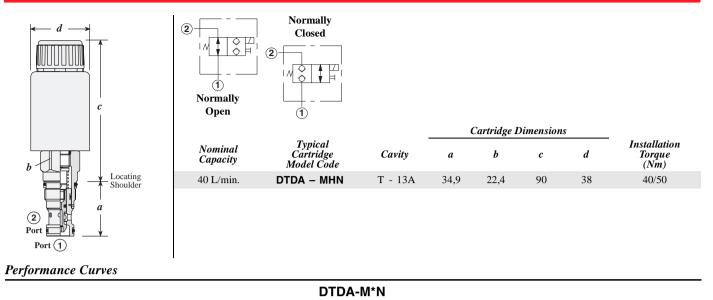


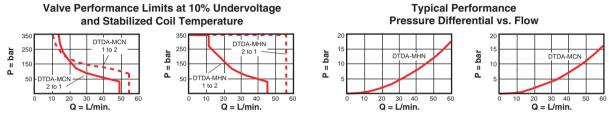
5UN

114

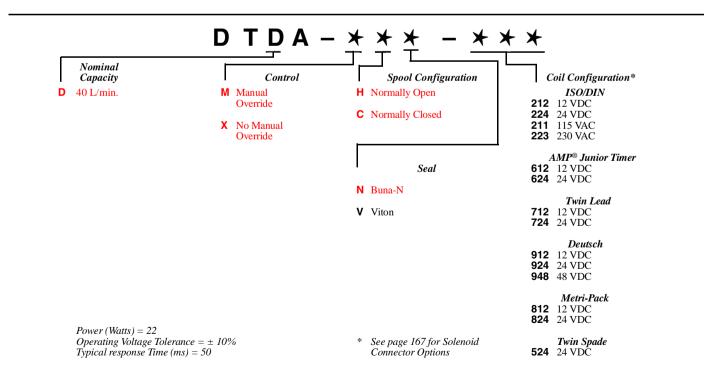
### Solenoid Operated Cartridge Valves

### **DIRECT ACTING, 2-POSITION, 2-WAY POPPET DIRECTIONAL VALVE**

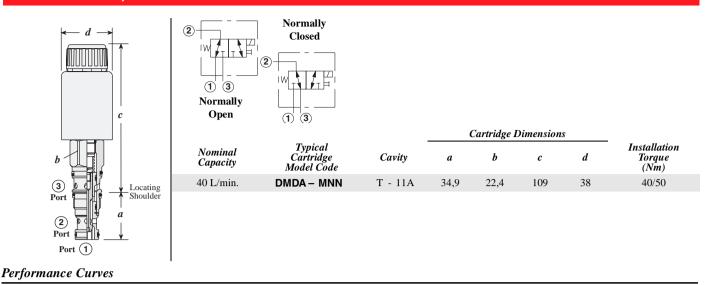




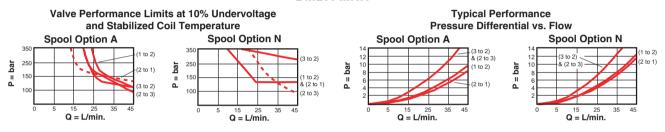
- Maximum operating pressure = 350 bar\*\*
- Maximum Leakage at 32 cSt = 10 drops/min.
- Switching frequency = 15000 cycles/hr.
- Proper installation of solenoid valves requires an extra deep socket to clear the solenoid tube. Sockets are available from Snap On tools (P/N SIML280) or Sun Hydraulics (P/N 998-100-006). See <u>www.sunhydraulics.com</u> for details.
  - \*\* For valves produced before January 1, 2004 (date code A041), the maximum operating pressure is 350 bar at port 2 and 250 bar at port 1. NOTE: While the valve will operate reliably with pressures up
  - to 350 bar at Port 1, solenoid tube fatigue life is reduced.



### Solenoid Operated Cartridge Valves 2-POSITION, 3-WAY SPOOL DIRECTIONAL VALVE



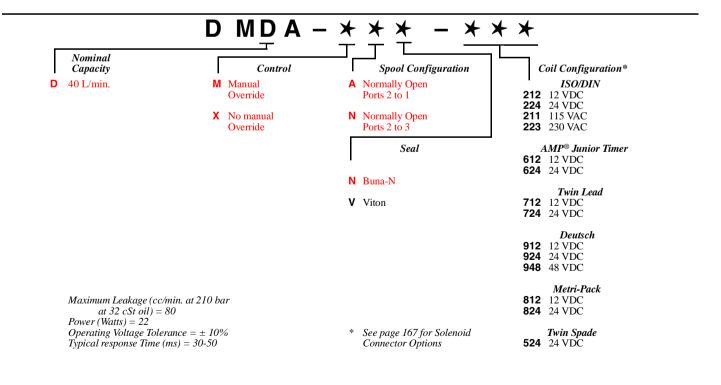
DMDA-MNN



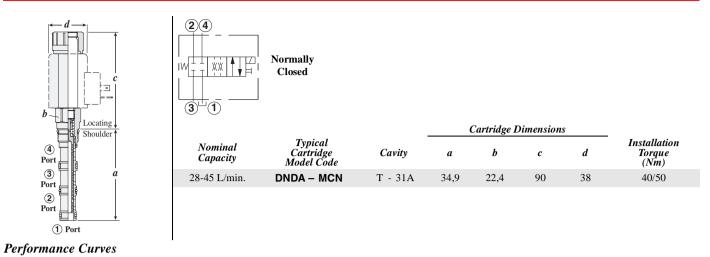
- Maximum operating pressure = 350 bar\*\*
- Maximum Leakage at 32 cSt = 81,9 cc/min.@210 bar
- Switching frequency = 15000 cycles/hr

 Proper installation of solenoid valves requires an extra deep socket to clear the solenoid tube. Sockets are available from Snap On tools (P/N SIML280) or Sun Hydraulics (P/N 998-100-006). See <u>www.sunhydraulics.com</u> for details.

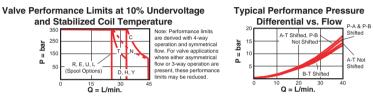
\*\*For valves produced before January 1, 2004 (date code A041), the maximum operating pressure is 350 bar at ports 2 and 3 and 250 bar at port 1. NOTE: While the valve will operate reliably with pressures up to 350 bar at Port 1, solenoid tube fatigue life is reduced.



## Solenoid Operated Cartridge Valves 2-POSITION, 4-WAY SPOOL DIRECTIONAL VALVE



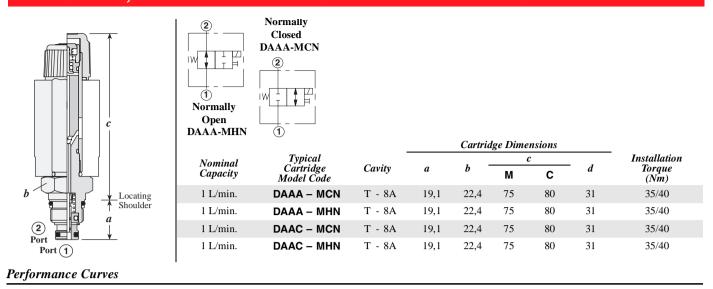
#### **DNDA-MCN**



- Maximum operating pressure = 350 bar\*\*
- Maximum Leakage at 32 cSt = 163 cc/min. at 210 bar Switching frequency = 15000 cycles/hr -
- . Proper installation of solenoid valves requires an extra deep socket to clear the solenoid tube. Sockets are available from Snap On tools (P/N SIML280) or Sun Hydraulics (P/N 998-100-006). See <u>www.sunhydraulics.com</u> for details. \*\*For valves produced before January 1, 2004 (date code A041), the maximum operating pressure is 350 bar at ports 2, 3 and 4 and 250 bar at port 1. NOTE: While the valve will operate reliably with pressures up to 350 bar at Port 1, solenoid tube fatigue life is reduced.

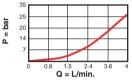
Nominal Capacity	Control	Spool Configuration	Coil Configuration*
D 28-45 L/min.	M Manual		ISO/DIN
	Override		<b>212</b> 12 VDC
	X No manual		<b>224</b> 24 VDC <b>211</b> 115 VAC
	No manual Override		<b>211</b> 115 VAC <b>223</b> 230 VAC
	o venide		<b>250</b> VIC
		H	AMP <sup>®</sup> Junior Timer
			612 12 VDC
			<b>624</b> 24 VDC
			Twin Lead
			712 12 VDC
		R	<b>724</b> 24 VDC
			Deutsch
			<b>912</b> 12 VDC
			924 24 VDC
			<b>948</b> 48 VDC
		Y	Metri-Pack
			812 12 VDC
		G J	824 24 VDC
		Seal	Twin Spade
		N Buna-N	<b>524</b> 24 VDC
Maximum Leakage (cc/n	in. at 210 bar		
at 32 cSt oil) = 163		V Viton	
Power (Watts) = 22 Operating Voltage Tolerd			* See page 167 for Solenoid Connector Options

### Solenoid Operated Cartridge Valves 2-POSITION, 2-WAY SPOOL DIRECTIONAL VALVE – PILOT CAPACITY

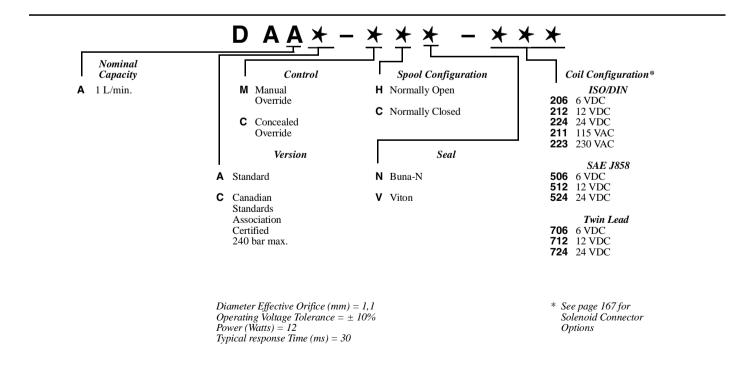


### DAA\*-M\*N





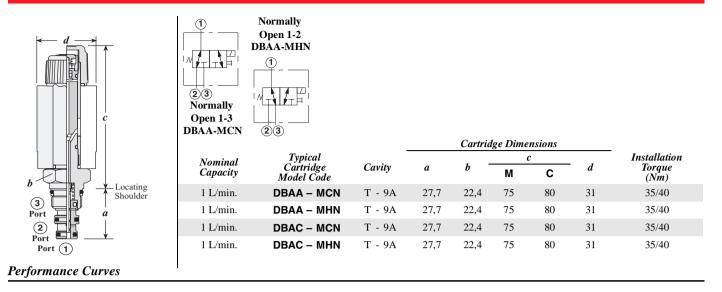
- Maximum operating pressure = 350 bar
- Maximum Leakage at 32 cSt = 10 drops/min.
- Switching frequency = 15000 cycles/hr.
- Cartridge can be installed directly into a cavity in some Sun pilot operated and ventable cartridges to provide electrically operated pilot control functions.
- Proper installation of solenoid valves requires an extra deep socket to clear the solenoid tube. Sockets are available from Snap On tools (P/N SIML280) or Sun Hydraulics (P/N 998-100-006). See <u>www.sunhydraulics.com</u> for details.





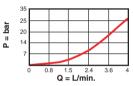
### Solenoid Operated Cartridge Valves

### 2-POSITION, 3-WAY SPOOL DIRECTIONAL VALVE – PILOT CAPACITY



#### DBA\*-M\*N

Pressure vs. Flow



- Maximum operating pressure = 350 bar
- Maximum Leakage at 32 cSt = 10 drops/min.
- Switching frequency = 15000 cycles/hr
- Proper installation of solenoid valves requires an extra deep socket to clear the solenoid tube. Sockets are available from Snap On tools (P/N SIML280) or Sun Hydraulics (P/N 998-100-006). See <u>www.sunhydraulics.com</u> for details.

