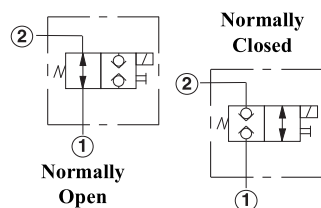
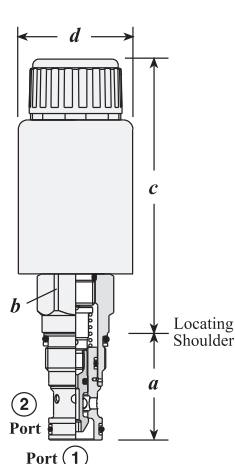


## Solenoid Operated Cartridge Valves

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

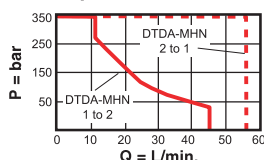
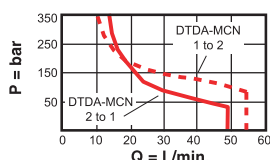


Nominal Capacity	Typical Cartridge Model Code	Cavity	Cartridge Dimensions				Installation Torque (Nm)
			a	b	c	d	
40 L/min.	<b>DTDA – MHN</b>	T - 13A	34,9	22,4	90	38	40/50

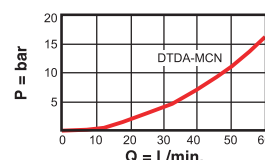
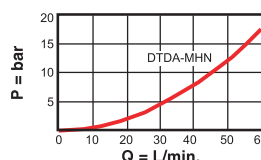
#### Performance Curves

#### DTDA-M\*N

Valve Performance Limits at 10% Undervoltage and Stabilized Coil Temperature



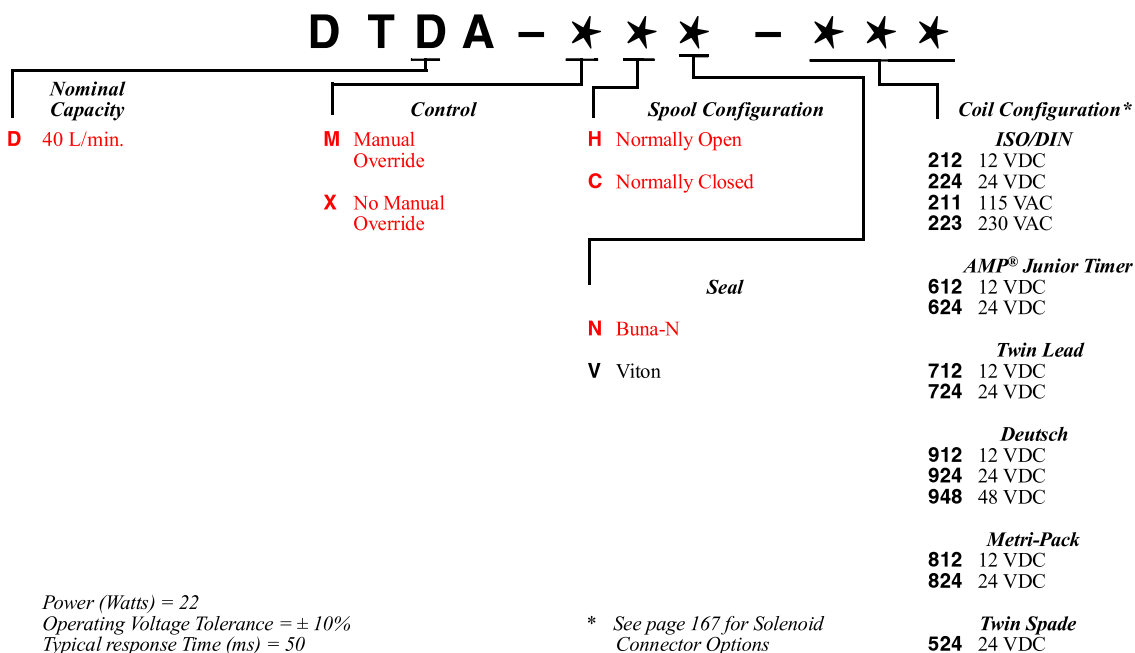
Typical Performance Pressure Differential vs. Flow



- 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 [www.sunhydraulics.com](http://www.sunhydraulics.com) 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.

#### OPTION ORDERING INFORMATION **Model Codes printed in Red are Preferred Versions and most readily available**



Power (Watts) = 22  
 Operating Voltage Tolerance =  $\pm 10\%$   
 Typical response Time (ms) = 50

\* See page 167 for Solenoid Connector Options

Visit [www.sunhydraulics.com](http://www.sunhydraulics.com) for detailed and complete technical information on our full line of products.