

This solenoid-operated 2-way, 2-position cartridge is a direct-acting, balanced spool directional valve. The valve is available in either a normally open or normally closed configuration.

The position switch provides confirmation that the valve is in the spring biased position.

**TECHNICAL DATA**

Maximum Operating Pressure	350 bar
Response Time - Typical	50 ms
Maximum Valve Leakage at 110 SUS (24 cSt)	80 cc/min.@210 bar
Switching Frequency	15000 cycles/hr
Seal kit - Cartridge	Buna: 990-413-007
Seal kit - Cartridge	Viton: 990-413-006

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

**CONFIGURATION OPTIONS**

Model Code Example: **DLDAZCN224**

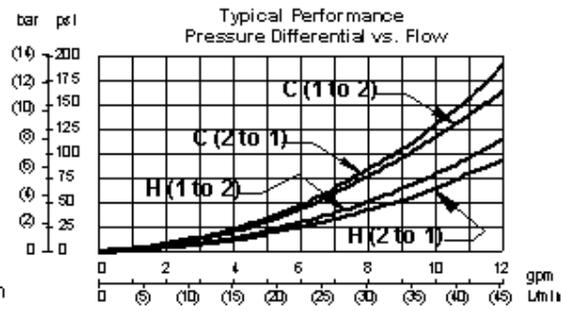
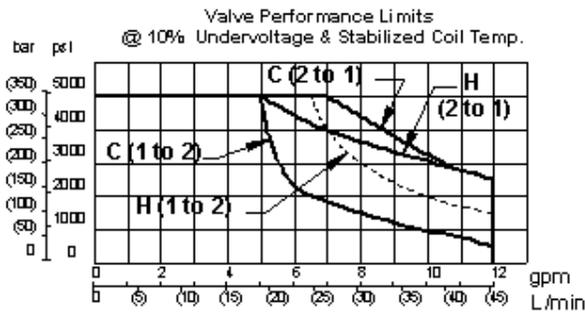
SPOOL CONFIGURATION	(C)	SEAL MATERIAL	(N)	COIL * (224)
<b>C</b> Normally Closed		<b>N</b> Buna-N		<b>224</b> DIN 43650 3 pin (Hirschman), 24 VDC
H Normally Open		V Viton		<b>212</b> DIN 43650 3 pin (Hirschman), 12 VDC
				<b>912</b> Deutsch DT04-2P, 12 VDC
				<b>924</b> Deutsch DT04-2P, 24 VDC

\* Additional coil options are available

**TECHNICAL FEATURES**

- A coil must be ordered with this cartridge. This cartridge is supplied as a sealed, factory set unit and is not field serviceable. If the assembly requires changes or service it needs to be returned to the factory. Any tampering will violate the product warranty.
- Position switch is CE approved.
- When torquing this cartridge into its cavity, a crow's foot wrench or similar will be required since the position switch precludes the use of a deep socket wrench.
- The solenoid tube assembly is fatigue rated for 5000 psi (350 bar) service.
- This valve is direct actuated and requires no minimum hydraulic pressure for operation.
- 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.
- A wide variety of coil termination and voltage options are available, with and without surge protection. See the CONFIGURATION section.
- The solenoid's unique magnetic design results in a high efficiency solenoid, yielding high spool actuating force per Watt expended, leading to reliable valve shifting.
- 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**



## RELATED MODELS

- [DLDA](#) 2-way, solenoid-operated directional spool valve
- [DLDA S](#) 2-way, soft shift, solenoid-operated directional spool valve