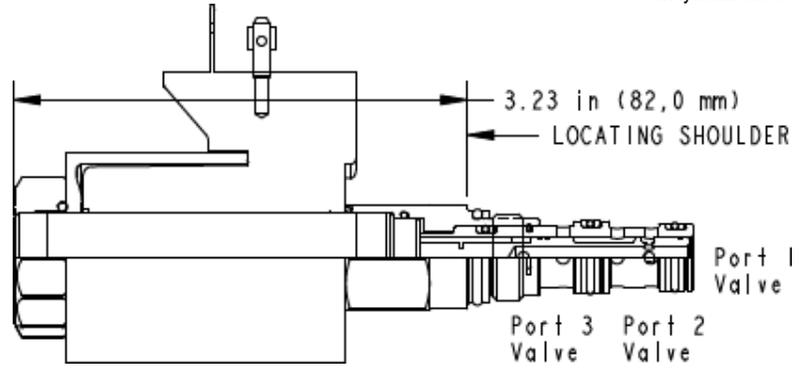


X-Control, A-Spool



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

**CONFIGURATION**

|                              |                                     |
|------------------------------|-------------------------------------|
| <b>X</b> Control             | No Manual Override                  |
| <b>A</b> Spool Configuration | Normally Open 1 to 2, Closed 1 to 3 |
| <b>N</b> Seal Material       | Buna-N                              |
| <b>224</b> Coil              | DIN 43650-Form A, 24 VDC            |

**TECHNICAL DATA**

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

|   |                       |
|---|-----------------------|
| Maximum Operating Pressure                                | 350 bar               |
| Typical Valve Leakage at 110 SUS (24 cSt) Inlet on 1      | 164 cc/min.@350 bar   |
| Typical Valve Leakage at 110 SUS (24 cSt) Inlet on 2 or 3 | 82 cc/min.@350 bar    |
| Response Time - Typical                                   | 50 ms                 |
| Switching Frequency                                       | 15,000 max. cycles/hr |
| Seal kit - Cartridge                                      | Buna: 990150007       |
| Seal kit - Cartridge                                      | Viton: 990150006      |

**NOTES**

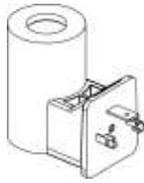
- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
- An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

**CONFIGURATION OPTIONS**

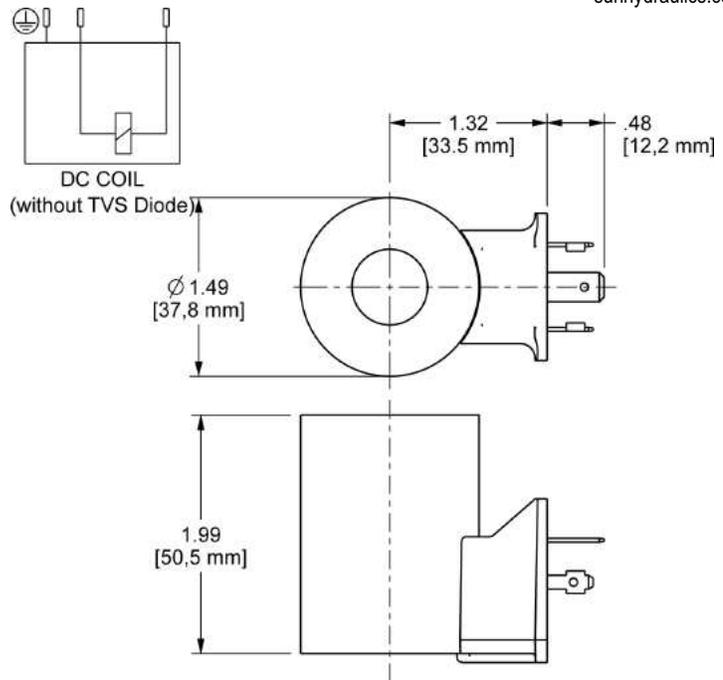
**Model Code Example: DMBFXAN224**

| CONTROL                       | (X) SPOOL CONFIGURATION                      | (A) SEAL MATERIAL               | (N) COIL * (224)                    |
|-------------------------------|--|---------------------------------|-------------------------------------|
| <b>X</b> No Manual Override   | <b>A</b> Normally Open 1 to 2, Closed 1 to 3 | <b>N</b> Buna-N                 | <b>224</b> DIN 43650-Form A, 24 VDC |
| <b>P</b> Manual Pull Override | <b>N</b> Normally Open 2 to 3, Closed 1 to 2 | <b>E</b> EPDM<br><b>V</b> Viton | No coil                             |

\* Additional coil options are available



**CONFIGURATION**



**TECHNICAL DATA**

|   |  |
|---|--|
| Operating Temperature Range                 | -40 to 110 °C  |
| Arc Suppression (TVS)                       | None   |
| Power Consumption (cold) - at rated voltage | 25 Watts   |
| Maximum Ambient Temperature                 | 50 °C  |
| Voltage/Frequency                           | 24 VDC   |
| Operating Voltage Range                     | +10%/-15%  |
| Duty Cycle Rating                           | 100 %  |
| Connector                                   | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque                             | 0,5 Nm   |

**USED WITH**

|           |           |           |           |           |           |           |        |        |      |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|------|
| DBAF      | DBAFS     | DFBF      | DFBG      | DFCI      | DFCJ      | DFDI      | DFDJ   | DFEI   | DFEJ |
| DFFI      | DFFJ      | DLDF      | DLDFS     | DMBF      | DNBF      | DTAF      | DTAFS  | DTBF   | DTCF |
| DTDF      | DTDFS     | DWBF      | DWDF      | FDEP      | FMDF      | FMDG      | FPBF   | FPBG   | FPBI |
| FPBJ      | FPBU      | FREP      | PRDF      | PRDG      | RPEI      | RVCK      | RVCL   | RVCM   | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991740001 | XMD-01 | XMD-02 |      |