Direct solenoid and solenoid pilot operated valves

**OPERATIONAL BENEFITS**

1. The 4-way pilot develops maximum shifting force both ways
2. Memory spring available
3. Balanced spool, immune to variations of pressure, also provides high flow
4. Short stroke with high flow
5. Bonded spool with minimum friction, shifting in a glass-like finished bore
6. Pilot with balanced poppet, high flow, short and consistent response times.
7. Wiping effect eliminates sticking
8. Long service life

**HOW TO ORDER**

- **Pilot air**
  - Internal
    - 53A-1A0-xx-xxxx-xx
  - External from 10 end
    - 53A-1B0-xx-xxxx-xx
  - External from 12 end
    - 53A-1C0-xx-xxxx-xx
- **NC Valve**
  - DM – D
    - XX
    - X
    - X XX
    - Voltage
    - Wire length
    - Manual Operator
    - Electrical connection
    - BA
    - Flying leads
    - KA
    - Mini square connector
    - KD
    - Mini square connector with light
    - JB
    - Rectangular connector
    - JD
    - Rectangular connector with light

- **NO Valve**
  - GM – G
    - XX
    - X
    - XX
    - Voltage
    - Wire length
    - Manual Operator
    - Electrical connection
    - BA
    - Flying leads
    - BT
    - Flying leads with light
    - KA
    - Solenoid plug-in wire assembly
    - KT
    - Solenoid plug-in wire assembly with light
    - GA
    - MAC JAC solenoid plug-in wire assembly

**HOW TO ORDER CIRCUIT BAR**

- **Port size**
  - 1/4” NPTF
    - Internal
      - EBM053A-00AAA-xx
    - External
      - EBM053A-00ABA-xx
  - 3/8” NPTF
    - Internal
      - EBM053A-00ABB-xx
    - External
      - EBM053A-00ABAB-xx

**FUNCTIONS**

- **Port size**
  - 1/4” – 3/8”
- **Flow (Max)**
  - Cv 2.0
- **Circuit bar mounting**
  - Non plug-in
- **Series**
  - 53
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TECHNICAL DATA

<table>
<thead>
<tr>
<th>Fluid:</th>
<th>Compressed air, vacuum, inert gases</th>
</tr>
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<tbody>
<tr>
<td>Pressure range:</td>
<td>Internal pilot: 20 to 120 PSI</td>
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<tr>
<td></td>
<td>External pilot: Vacuum to 120 PSI</td>
</tr>
<tr>
<td>Lubrication:</td>
<td>Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)</td>
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<tr>
<td>Filtration:</td>
<td>40µ</td>
</tr>
<tr>
<td>Temperature range:</td>
<td>0°F to 120°F (-18°C to +50°C)</td>
</tr>
<tr>
<td>Orifice:</td>
<td>8.5 mm</td>
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<tr>
<td>Flow:</td>
<td>1/4&quot;: Cv 1.7 – 3/8&quot;: Cv 2.0</td>
</tr>
<tr>
<td>Coil:</td>
<td>Epoxy encapsulated - Class A wires – 100% ED (specify mod. 0449)</td>
</tr>
<tr>
<td>Voltage range:</td>
<td>-15% to +10% of nominal voltage</td>
</tr>
<tr>
<td>Protection:</td>
<td>IP54 (GM pilot) – IP64 (DM pilot)</td>
</tr>
<tr>
<td>Power:</td>
<td>1.0 to 5.4W (Higher wattages available)</td>
</tr>
<tr>
<td>Options:</td>
<td>BSPP threads</td>
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</tbody>
</table>

DIMENSIONS

Shown with BA connector