Springless Diaphragm Valves
Pulse Valve, ideal for Dust Collection Systems and Bag Houses

The Series DCS/RDCS Springless Dust Collection Valves are ideal for use with the Series DCT1000 and Series DCT500 duct collection timer boards. A springless design offers not only durability, but also reliability for an exceptional cleaning pulse. Both the Series DCS and RDCS have the option for either coupling or NPT connections. The coupling connection allows for a quick and simple installation. Only the stub pipe and blowtube need to be cleaned and deburred before the valve is fit into position. The “T” Series DCS has female threaded connections and the “C” Series DCS has a coupling connection. Both the “T” and “C” versions have a 90° angle between the inlet and outlet: the most suitable configuration for pulse valve applications. The valves are offered in both integrated and remote coil configurations.

FEATURES
• Thermoplastic polyurethane diaphragm for longer life
• High flow factor for effective cleaning
• Unique diaphragm design eliminates spring
• Valve can be mounted in any position
• Quick on & off response time

ACCESSORIES
A-237, Muffler
BDA-5030-Q, 3/4˝ DCS/RDCS Pulse Valve Replacement Diaphragm
BDA-5230-Q, 1˝ DCS/RDCS Pulse Valve Replacement Diaphragm
BDA-5430-Q, 1-1/2˝ DCS/RDCS Pulse Valve Replacement Diaphragm
RSV1D-COIL, 110 VAC DIN Replacement Solenoid Coil
RSV2D-COIL, 220 VAC DIN Replacement Solenoid Coil
RSV3D-COIL, 24 VAC DIN Replacement Solenoid Coil

DIAPHRAGM VALVE CONSTRUCTION

NEMA 4X (IP65)
Solenoid Coil
Integrated Solenoid Stem
Cover
Unique Diaphragm Design Eliminates Need for a Spring
Robust Die Cast Aluminum Body

SPECIFICATIONS
Service: Compatible gases, filtered and oil free.
Wetted Materials:
• Body: Aluminum;
• Diaphragm disc: Thermoplastic polyurethane;
• Solenoid seals: NBR.
Other Materials:
• Cover: Aluminum;
• Body bolts: Zinc plated SS;
• Solenoid: Nylon.
Pressure Limits:
• Min. of 4.4 psi (0.3 bar), max. of 124.7 psi (8.6 bar).
Temperature Limits:
• Ambient: -4 to 140°F (-20 to 60°C);
• Operating: -4 to 185°F (-20 to 85°C).
Power Requirements: 110 VAC, 220 VAC, or 24 VDC for DCS models.
Power Consumption: 12 W; Inrush: 17 VA; Holding: 14.5 VA for DCS models.
Electrical Connection: DIN connection for DCS models.
Enclosure Rating: NEMA 4X (IP65) for DCS models.
Process Connection: See model chart.
Mounting Orientation: Any position.
Agency Approval: CE.

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Solenoid</th>
<th>Connection</th>
<th>Number of Diaphragms</th>
<th>Cv Factor (gal/min)</th>
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<tbody>
<tr>
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<td>3/4˝</td>
<td>Remote</td>
<td>NPT Coupling</td>
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<tr>
<td>RDCS25T</td>
<td>1˝</td>
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<tr>
<td>RDCS35T</td>
<td>1-1/2˝</td>
<td>Remote</td>
<td>NPT Coupling</td>
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</table>

*110 VAC with DIN Connector

Series DCS/RDCS Model Guide

<table>
<thead>
<tr>
<th>Construction</th>
<th>DCS</th>
<th>RDCS</th>
<th>Integrated coil</th>
<th>Remote coil</th>
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<tbody>
<tr>
<td>Size</td>
<td>20</td>
<td>25</td>
<td>35</td>
<td>20</td>
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<tr>
<td>3/4˝</td>
<td>1˝</td>
<td>1-1/2˝</td>
<td>1˝</td>
<td>1-1/2˝</td>
</tr>
<tr>
<td>Connection</td>
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<td>C</td>
<td>NPT Coupling</td>
<td>NPT Coupling</td>
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<tr>
<td>Voltage</td>
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<td>110 VAC DIN (for integrated coil only)</td>
<td>2D</td>
<td>220 VAC DIN (for integrated coil only)</td>
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