# SILO FLUIDIZER ASSEMBLIES

## 4300 Series
- Blue Disk, Steel: 4300
- Blue Disk, Aluminum: 4302
- Blue Disk, Stainless Steel: 4304
- Blue Disk, SS, SS Hardware: 4304SS
- White Disk, Steel: 4301
- White Disk, Aluminum: 4303
- White Disk, Stainless Steel: 4305
- White Disk, SS, SS Hardware: 4305SS
- White Disk, 316 SS: 4306
- White EPDM Disk, 316 SS: 4306W
- White EPDM Disk, 316 SS, SS Hardware: 4306WSS
- White EPDM Disk, SS: 4305W
- Orange Disk, Hi Temp, Steel: 4305HT
- Gray Metal Detectable Disk, SS, SS Hardware: 4305MD
- Black EPDM Disk, SS: 4307
- Black EPDM Disk, Aluminum: 4308
- Black EPDM Disk, Steel: 4323

## 4400 Series
- Blue Disk, Steel: 4400
- Blue Disk, Aluminum: 4402
- Blue Disk, Stainless Steel: 4404
- Blue Disk, SS, SS Hardware: 4404SS
- White Disk, Steel: 4401
- White Disk, Aluminum: 4403
- White Disk, Stainless Steel: 4405
- White Disk, SS, SS Hardware: 4405SS
- White EPDM, SS: 4405W
- Orange Disk, Hi Temp, SS: 4405HT
- Black EPDM Disk, SS: 4406
- Black EPDM Disk, Steel: 4407

## 4500 Series
- Blue Disk, Steel: 4500
- Blue Disk, Aluminum: 4502
- Blue Disk, Stainless Steel: 4504
- Blue Disk, SS, SS Hardware: 4504SS
- White Disk, Steel: 4501
- White Disk, Aluminum: 4503
- White Disk, SS: 4505
- White Disk, SS, SS Hardware: 4505SS
- Orange Disk, Hi Temp, SS: 4505HT

## Mini Fluidizer Series
- Blue Disk, SS: 4804
- White Disk, SS: 4805
- Orange Disk, Hi Temp, SS: 4804HT
- Black EPDM Disk, SS: 4807

---

<table>
<thead>
<tr>
<th>Series</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Airline Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>4300</td>
<td>1/4&quot; NPT</td>
<td>1/2&quot; NPT</td>
<td>7/8&quot; (22 mm)</td>
<td>1-3/16&quot; (30 mm)</td>
<td>3&quot; (76 mm)</td>
<td>3/8&quot;-1/2&quot; (10-12 mm) Tubing</td>
</tr>
<tr>
<td>4400</td>
<td>1/2&quot; NPT</td>
<td>3/4&quot; NPT</td>
<td>1-1/16&quot; (27 mm)</td>
<td>1-1/4&quot; (32 mm)</td>
<td>3-1/16&quot; (78 mm)</td>
<td>1/2&quot;-3/4&quot; (13-19 mm) Tubing or Hose</td>
</tr>
<tr>
<td>4500</td>
<td>3/4&quot; NPT</td>
<td>1&quot; NPT</td>
<td>1-3/8&quot; (35 mm)</td>
<td>1-1/4&quot; (32 mm)</td>
<td>3-1/4&quot; (83 mm)</td>
<td>3/4&quot;-1&quot; (19-25 mm) Hose</td>
</tr>
<tr>
<td>MINI</td>
<td>1/8&quot; NPT</td>
<td>NA</td>
<td>1/2&quot; (13 mm)</td>
<td>9/16&quot; (14 mm)</td>
<td>1-1/2&quot; (38 mm)</td>
<td>1/4&quot; (6 mm) Tubing</td>
</tr>
</tbody>
</table>
# SILO FLUIDIZER SPARE PARTS

## Fluidizer Disks:
- Disk, Blue Silicone .............................................. 4124
- Disk, White Silicone ............................................. 4134
- Disk, White EPDM ................................................... 4164
- Disk, Orange Silicone, Hi Temp .......................... 4124HT
- Disk, Grey Silicone, Metal Detectable ............. 4124MD
- Disk, Black EPDM ..................................................... 4154

## Mini Fluidizer Series:
- Mini Disk, Blue Silicone .......................... 4824
- Mini Disk, White Silicone ......................... 4834
- Mini Disk, Hi Temp Orange Silicone .... 4824HT
- Mini Disk, Black EPDM ........................................... 4854
- Silo Stem, Mini, SS .............................................. 4812
- Washer, Mini, SS ................................................. 4813
- Nut, Mini, SS .......................................................... 4815
- O-Ring, Hi Temp [-013] ............................. 4820HT
- O-Ring, FDA White [-013] ....................... 4820

## 4300 Series:
- Silo Stem, Steel ................................................. 4310
- Silo Stem, Aluminum ............................................. 4311
- Silo Stem, SS ......................................................... 4312
- Silo Stem, 316 SS .................................................. 4309
- O-Ring, FDA White [-116] ...................... 7561
- Flat Washer, Zinc Plated ......................... 4313
- Flat Washer, SS ..................................................... 4314
- ¼” Locknut, Plated ........................................... 4315
- ¼” Locknut, SS ....................................................... 4316

## 4400 Series:
- Silo Stem, Steel ................................................. 4410
- Silo Stem, Aluminum ............................................. 4411
- Silo Stem, SS ......................................................... 4412
- O-Ring, White Buna-N, [-214] .................. 7755
- O-Ring, Hi Temp [-214] ............................. 7755HT
- Flat Washer, Zinc ................................................. 4413
- Flat Washer, SS ..................................................... 4414
- ¾” Locknut, Plated ........................................... 4415
- ¾” Locknut, SS ....................................................... 4416

## 4500 Series:
- Silo Stem, Steel ................................................. 4510
- Silo Stem, Aluminum ............................................. 4511
- Silo Stem, SS ......................................................... 4512
- O-Ring, FDA White [-218] ...................... 7714
- Flat Washer, Zinc ................................................. 4513
- Flat Washer, SS ..................................................... 4514
- 1” Locknut, Plated ........................................... 4515
- 1” Locknut, SS ....................................................... 4516
SILO FLUIDIZER CONTROL PACKAGES

Custom Packages available that operate between 1 and 36 Fluidizers. Contact us for more details and pricing.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
</tr>
</thead>
<tbody>
<tr>
<td>For use with 4 Fluidizers:</td>
<td></td>
</tr>
<tr>
<td>4300 Series</td>
<td>2110</td>
</tr>
<tr>
<td>4400 Series</td>
<td>2110-B</td>
</tr>
<tr>
<td>4800 Series</td>
<td>2910</td>
</tr>
<tr>
<td>For use with 8 Fluidizers:</td>
<td></td>
</tr>
<tr>
<td>4300 Series</td>
<td>2120</td>
</tr>
<tr>
<td>4400 Series</td>
<td>2120-B</td>
</tr>
<tr>
<td>4800 Series</td>
<td>2920</td>
</tr>
<tr>
<td>For use with 12 Fluidizers:</td>
<td></td>
</tr>
<tr>
<td>4300 Series</td>
<td>2130</td>
</tr>
<tr>
<td>4400 Series</td>
<td>2130-B</td>
</tr>
<tr>
<td>For use with 16 Fluidizers:</td>
<td></td>
</tr>
<tr>
<td>4300 Series</td>
<td>2140</td>
</tr>
<tr>
<td>4400 Series</td>
<td>2140-B</td>
</tr>
</tbody>
</table>

4 UNIT CONTROL PACKAGE

Package operates 4 Fluidizers (sold separately) and includes: 1 Male Connector, 2 Male Swivel Elbows, 2 Male Branch Tee’s, 1 Union Tree, 1 Solenoid Valve, 1 Timer with Enclosure, 1 Regulator, 15 Ft. of Tubing and 1-6.5 gal. Surge Tank.

8 UNIT CONTROL PACKAGE

Package operates 8 Fluidizers (sold separately) and includes: 2 Male Connector, 4 Male Swivel Elbows, 4 Male Branch Tee’s, 2 Union Tree, 2 Solenoid Valve, 1 Timer with Enclosure, 1 Regulator, 30 Ft. of Tubing and 1-6.5 gal. Surge Tank.

12 UNIT CONTROL PACKAGE

Package operates 12 Fluidizers (sold separately) and includes: 3 Male Connector, 6 Male Swivel Elbows, 6 Male Branch Tee’s, 3 Union Tree, 3 Solenoid Valve, 1 Timer with Enclosure, 1 Regulator, 40 Ft. of Tubing and 1-12 gal. Surge Tank.

16 UNIT CONTROL PACKAGE

Package operates 16 Fluidizers (sold separately) and includes: 4 Male Connector, 8 Male Swivel Elbows, 8 Male Branch Tee’s, 4 Union Tree, 4 Solenoid Valve, 1 Timer with Enclosure, 2 Regulator, 50 Ft. of Tubing and 2-6.5 gal. Surge Tanks.
### Male Connector Tubes:
- Male Connector ½" Tube, ½" Pipe: 2000
- Male Connector ½" Tube, ¾" Pipe, SS: 2000SS
- Male Connector ⅜" Tube, ½" Pipe: 2002
- Male Connector ¼" Tube, ¾" Pipe: 2800

### Male Swivel Tubes:
- Male Swivel 90° ¾" Tube, ¼" Pipe: 2005
- Male Swivel 90° ¾" Tube, ¼" Pipe, SS: 2005SS
- Male Swivel 90° ½" Tube, ½" Pipe: 2007
- Male Swivel 90° ¼" Tube, ¾" Pipe: 2805

### Male Branch Tee Swivel Tubes:
- Male Branch Tee Swivel ¾" Tube, ¼" Pipe: 2010
- Male Branch Tee Swivel ¾" Tube, ¼" Pipe, SS: 2010SS
- Male Branch Tee Swivel ½" Tube, ½" Pipe: 2012
- Male Branch Tee Swivel ¼" Tube, ¾" Pipe: 2810

### Union Tee Tubes:
- Union Tee ¾" Tube: 2015
- Union Tee ¾" Tube, SS: 2015SS
- Union Tee ½": 2016
- Union Tee ¼" Tube: 2815

### Solenoid Valves:
- ½" Solenoid Valve, Brass Body: 2021
- ½" Solenoid Valve, 24VDC: 2021DC
- ½" Solenoid Valve, 12VDC: 2021DC-12
- ½" Solenoid Valve, SS Body: 2021SS
- ¾" Solenoid Valve, Brass Body: 2821
- ¾" Solenoid Valve, 12VDC: 2821DC-12
- ¾" Solenoid Valve, 24VDC: 2821DC-24
- ¾" Solenoid Valve, SS Body: 2821SS
- ½" EP Solenoid, Ex Proof: 2024
- ½" EP Solenoid, Ex Proof, 24VDC: 2024DC
- ½" Solenoid Valve, 240VAC: 2027
- ½" Solenoid, Ex Proof, 24VAC: 2028

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AERATION IS WHAT WE DO.

We are the original disk Fluidizer manufacturer. We have the most experience – 30 years with all types of material. We don’t just sell you an aerator from a catalog. We know how many you should use, where you should install them in the silo, bin, feeder, trailer or pipe and the timing sequence you should use to activate your aerators. We know how much air to use for fast material discharge – which can reduce air usage and cost. We have the broadest line of disk materials for high-temp, food grade and metal detectable applications. We provide all of this value-added engineering for free, which is why we have hundreds of repeat customers worldwide.
## CONTROL PACKAGE SPARE PARTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air Tanks:</strong></td>
<td></td>
</tr>
<tr>
<td>Steel Air Tank, 6.5 Gallon</td>
<td>2050</td>
</tr>
<tr>
<td>Steel Air Tank, 12 Gallon</td>
<td>2051</td>
</tr>
<tr>
<td><strong>LPDE Tubing:</strong></td>
<td></td>
</tr>
<tr>
<td>¼&quot; LPDE Tubing, Natural</td>
<td>2060</td>
</tr>
<tr>
<td>½&quot; LPDE Tubing, Natural</td>
<td>2061</td>
</tr>
<tr>
<td>¾&quot; LPDE Tubing, Black</td>
<td>2062</td>
</tr>
<tr>
<td>¼&quot; LPDE Tubing, Black</td>
<td>2063</td>
</tr>
<tr>
<td>⅜&quot; LPDE Tubing, Natural</td>
<td>2060</td>
</tr>
<tr>
<td>⅜&quot; LPDE Tubing, Black</td>
<td>2062</td>
</tr>
<tr>
<td><strong>Air Regulators:</strong></td>
<td></td>
</tr>
<tr>
<td>Econ. Air Regulator With Gauge</td>
<td>2070</td>
</tr>
<tr>
<td>Econ. Air Regulator With Gauge, ⅜&quot; NPT</td>
<td>2870</td>
</tr>
<tr>
<td>Air Regulator With Filter, Gauge</td>
<td>2071</td>
</tr>
<tr>
<td><strong>Timer Boards:</strong></td>
<td></td>
</tr>
<tr>
<td>Timer Board, 110VAC</td>
<td>2040</td>
</tr>
<tr>
<td>Timer Board With Enclosure Nema 4</td>
<td>2041</td>
</tr>
<tr>
<td>Timer Board, With Enclosure Nema 4 (10 Output)</td>
<td>2041-10</td>
</tr>
<tr>
<td>Timer Board With Ex Proof Enclosure Nema 7</td>
<td>2041EX</td>
</tr>
<tr>
<td>Timer Board With Ex Proof Enc, Nema 7, 220V</td>
<td>2041EXHV</td>
</tr>
<tr>
<td>Timer Board With Enclosure Nema 4, 220V</td>
<td>2041HV</td>
</tr>
<tr>
<td>Timer Board With SS Enclosure Nema 4X</td>
<td>2041SS</td>
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<tr>
<td>Timer Board, 24VDC</td>
<td>2043</td>
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<tr>
<td>Timer Board, 230VAC</td>
<td>2044</td>
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<tr>
<td>Timer Board With Enclosure, 12VDC, Nema 4</td>
<td>2045</td>
</tr>
<tr>
<td>Timer Board, 12VDC</td>
<td>2046</td>
</tr>
<tr>
<td>Timer Board With Enclosure, 24VDC</td>
<td>2048</td>
</tr>
</tbody>
</table>
# SILO FLUIDIZER E-Z IN

## Fast-Fit Kit:
- Fast-Fit™ Fluidizer Kit (4300 Series) .......... 4700
- Fast-Fit™ Install Tool (4300 Series) .......... 4910

## Fast-Fit Mini Kit:
- Fast-Fit™ Mini Fluidizer Kit (4800 Series) .... 4920
- Fast-Fit™ Install Tool (4800 Series) .......... 4930

## E-Z In Oval:
- E-Z In Fluidizer Kit, Oval (4300 Series) ....... 4700
- E-Z In Fluidizer Kit, Oval (4400 Series) ....... 4740
- E-Z In Fluidizer Kit, Oval (4500 Series) ....... 4750

## E-Z In Rectangle:
- E-Z In Fluidizer Kit, Rectangle (4300 Series) .... 4730
- E-Z In Fluidizer Kit, Rectangle (4400 Series) .... 4760
- E-Z In Fluidizer Kit, Rectangle (4500 Series) .... 4770

## E-Z In Round:
- E-Z In Fluidizer Kit, Round (4300 Series) ...... 4720
- E-Z In Fluidizer Kit, Round (4400 Series) ...... 4723
- E-Z In Fluidizer Kit, Round (4500 Series) ...... 4725

## E-Z In Stainless Steel Oval:
- E-Z In Fluidizer Kit, SS, Oval (4300 Series) ..... 4710
- E-Z In Fluidizer Kit, SS, Oval (4400 Series) ..... 4780
- E-Z In Fluidizer Kit, SS, Oval (4500 Series) ..... 4790
## SILO FLUIDIZER E-Z IN SPARE PARTS
### EXTERNAL MOUNTING KITS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nuts:</strong></td>
<td></td>
</tr>
<tr>
<td>½&quot; - 14 E-Z In Nut, (4300 Series)</td>
<td>4317</td>
</tr>
<tr>
<td>½&quot; E-Z In Nut, SS</td>
<td>4317SS</td>
</tr>
<tr>
<td>¾&quot; - 14 E-Z In Nut, (4400 Series)</td>
<td>4417</td>
</tr>
<tr>
<td>1&quot; - 11.5 E-Z In Nut, (4500 Series)</td>
<td>4517</td>
</tr>
<tr>
<td><strong>Cross Bars:</strong></td>
<td></td>
</tr>
<tr>
<td>Cross Bar, E-Z In [4300 Series]</td>
<td>4703</td>
</tr>
<tr>
<td>Cross Bar, E-Z In, SS</td>
<td>4703SS</td>
</tr>
<tr>
<td>Cross Bar, E-Z In [4400 Series]</td>
<td>4704</td>
</tr>
<tr>
<td>Cross Bar, E-Z In [4500 Series]</td>
<td>4705</td>
</tr>
<tr>
<td><strong>E-Z In Oval:</strong></td>
<td></td>
</tr>
<tr>
<td>E-Z In Plate, [Oval, 4300 Series]</td>
<td>4701</td>
</tr>
<tr>
<td>E-Z In Plate, SS [Oval, 4300 Series]</td>
<td>4712</td>
</tr>
<tr>
<td>E-Z In Plate [Oval, 4400 Series]</td>
<td>4741</td>
</tr>
<tr>
<td>E-Z In Plate, [Oval, 4500 Series]</td>
<td>4751</td>
</tr>
<tr>
<td>E-Z In Plate, SS [Oval, 4400 Series]</td>
<td>4781</td>
</tr>
<tr>
<td>E-Z In Plate, SS [Oval, 4500 Series]</td>
<td>4791</td>
</tr>
<tr>
<td><strong>E-Z Round:</strong></td>
<td></td>
</tr>
<tr>
<td>E-Z In Plate [Round, 4300 Series]</td>
<td>4721</td>
</tr>
<tr>
<td>E-Z In Plate [Round, 4400 Series]</td>
<td>4724</td>
</tr>
<tr>
<td>E-Z In Plate [Round, 4500 Series]</td>
<td>4726</td>
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<tr>
<td>E-Z In Gasket [Round]</td>
<td>4722</td>
</tr>
<tr>
<td><strong>E-Z Rectangle:</strong></td>
<td></td>
</tr>
<tr>
<td>E-Z In Plate [Rectangle, 4300 Series]</td>
<td>4731</td>
</tr>
<tr>
<td>E-Z In Plate [Rectangle, 4400 Series]</td>
<td>4761</td>
</tr>
<tr>
<td>E-Z In Plate [Rectangle, 4500 Series]</td>
<td>4771</td>
</tr>
<tr>
<td>E-Z In Gasket [Rectangle]</td>
<td>4732</td>
</tr>
<tr>
<td><strong>Self-Tapping Screw:</strong></td>
<td></td>
</tr>
<tr>
<td>¼-14 X 1&quot; Self-Tapping Screw, Zinc</td>
<td>7159</td>
</tr>
</tbody>
</table>
## E-Z OUT ACCESS DOOR

### Assemblies:
- Access Door Assy, Formed.................................5100
- Access Door Assy, Flat........................................5107
- Access Door Assy, Tir, Formed.........................5108
- Access Door Assy, with Locknut, Flat..............5109

### Access Door Parts:
- Tee-Handle, Raised............................................4109
- Tee-Handle, Raised, Tir....................................4119
- Cross Bar, SS..................................................5102
- Access Door ....................................................5103
**Silo Fluidizer Installation:**

1. Drill appropriate size hole (see table) in silo wall.

<table>
<thead>
<tr>
<th>Fluidizer</th>
<th>Hole Size - Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>43XX</td>
<td>7/8” (22mm)</td>
</tr>
<tr>
<td>44XX</td>
<td>1- 1/16” (27mm)</td>
</tr>
<tr>
<td>45XX</td>
<td>1- 3/8” (35mm)</td>
</tr>
<tr>
<td>48XX</td>
<td>1/2” (13mm)</td>
</tr>
</tbody>
</table>

2. Deburr inside and outside of hole. If not deburred, damage to O-ring will occur. Make sure the area where the Fluidizer will be mounted is free of debris or defects (dents, caked material, weld seams, etc).

3. From the inside of the silo, have one person insert disk and stem assembly into the hole.

4. From the outside of the silo, have a second person put the flat washer and nut onto the stem.

5. Torque nut to approximately 25 ft. lbs (35 N m). 20 ft. lbs (27 N m) for the 48XX series.

6. Attach air supply line to the stem.

**E-Z In Installation:**

1. Using one of the cut out templates provided by Solimar, trace the pattern on the hopper. On conical hoppers make sure the mounting diameter at the center of the plate is greater than 24”. Diameters of 24”-36” will require a curved plate when using the oval kit.

2. Flame cut traced pattern with cutting torch or other means.

3. Grind all surfaces of the cut opening – the inside of the hopper wall must be smooth and free of any burrs or slag.

4. Attach the Fluidizer assembly to the plate using the washer and thinner mounting nut. Insert Solimar E-Z In plate with Fluidizer assembly, making sure the location pin on the oval kits is resting at the bottom of the opening. On rectangle kits, make sure the plate is centered with equal spacing around the opening.

5. On the outside of the hopper, attach cross bar to the Fluidizer plate assembly with the washer and clamping nut.

6. Torque clamping nut to 20 ft. lbs (27 N m).

7. Attach the air supply line to the Fluidizer.
**Fast-Fit™ Installation:**

1. **4300 Series**- Drill a 2” (50mm) hole at the Fluidizer mounting location. **Mini Fluidizer**- Drill a 1 1/8-inch (29mm) hole at the Fluidizer mounting location.

2. De-burr the inside and outside of hole.

3. Thread the Fluidizer (4300 Series) onto the retaining cable or long 1/4 ” NPT pipe stub and tighten to finger tightness only. (For Mini Fluidizer use 1/8” pipestub.)

4. Fold & Insert the Fluidizer Disk into the installation hole.

5. **Install Fast-Fit™ alignment plate onto the retaining cable (or pipe) and into the bin with the shoulder positioned outward. Center the alignment plate in the mounting hole, aligning it in the vertical position with the arrow pointing upwards.**

6. While continuing to hold retaining cable, slide the Fast-Fit™ sealing washer and the Fluidizer washer over the retaining cable and onto the stem. Next slide the nut over the retaining cable and thread it onto the stem.

7. Tighten to the specified fluidizer torque of 25 ft. lbs (35 Nm) and remove the retaining cable.
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