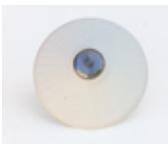


# SILO PARTS CATALOG



# SILO FLUIDIZER ASSEMBLIES



Mini  
Fluidizer



Standard  
Fluidizer

ITEM	PART #
------	--------

## 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 Disk, 316 SS, SS Hardware .....	4306SS
White EPDM Disk, 316 SS.....	4306W
White EPDM Disk,	
316 SS, SS Hardware .....	4306WSS
White EPDM Disk, SS .....	4307W
White EPDM Disk, Aluminum.....	4308W
Orange Disk, Hi Temp, Steel .....	4300HT
Orange Disk, Hi Temp, SS .....	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

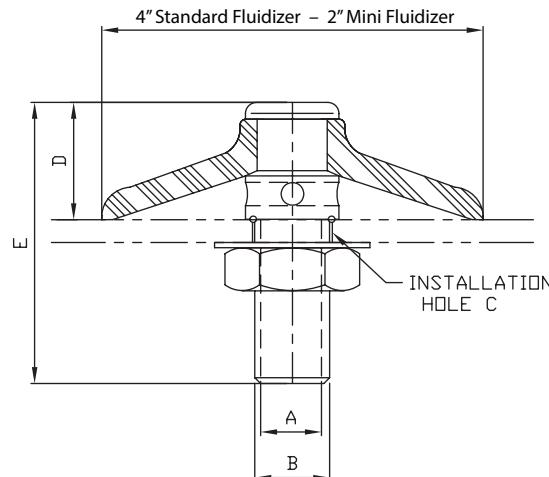
ITEM	PART #
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## 4500 Series:

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



SERIES	A	B	C	D	E	AIRLINE OPTIONS
4300	1/4" NPT	1/2" NPT	7/8" (22 mm)	1-3/16" (30 mm)	3" (76 mm)	3/8"-1/2" (10-12 mm) Tubing
4400	1/2" NPT	3/4" NPT	1-1/16" (27 mm)	1-1/4" (32 mm)	3-1/16" (78 mm)	1/2"-3/4" (13-19 mm) Tubing or Hose
4500	3/4" NPT	1" NPT	1-3/8" (35 mm)	1-1/4" (32 mm)	3-1/4" (83 mm)	3/4"-1" (19-25 mm) Hose
MINI	1/8" NPT	NA	1/2" (13 mm)	9/16" (14 mm)	1-1/2" (38 mm)	1/4" (6 mm) Tubing

# SILO FLUIDIZER SPARE PARTS

ITEM	PART #
------	--------

## 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
½" Locknut, Plated.....	4315
½" Locknut, SS .....	4316

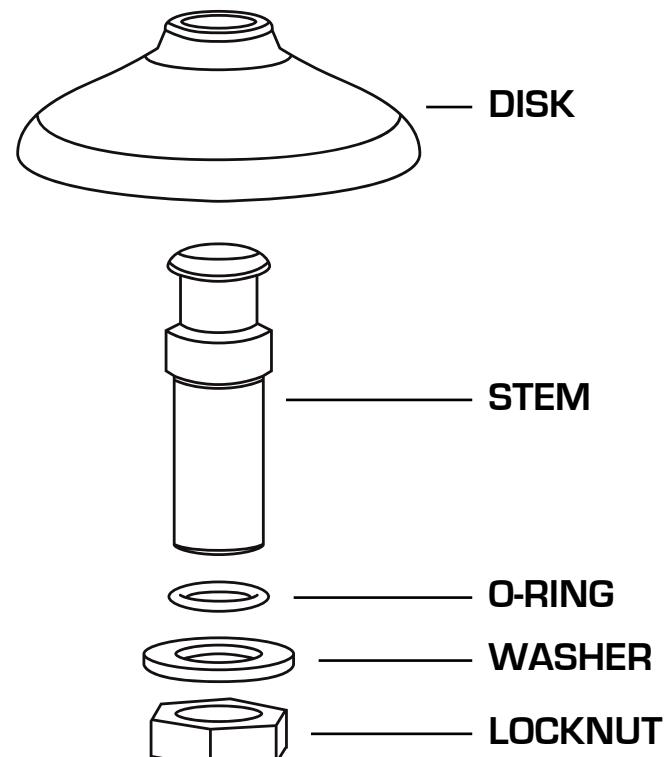
ITEM	PART #
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## 4400 Series:

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.

ITEM	PART #
------	--------

## For use with 4 Fluidizers:

4300 Series .....	2110
4400 Series .....	2110-B
4800 Series .....	2910

## For use with 8 Fluidizers:

4300 Series .....	2120
4400 Series .....	2120-B
4800 Series .....	2920

## 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.

ITEM	PART #
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## For use with 12 Fluidizers:

4300 Series .....	2130
4400 Series .....	2130-B

## For use with 16 Fluidizers:

4300 Series .....	2140
4400 Series .....	2140-B

## 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.

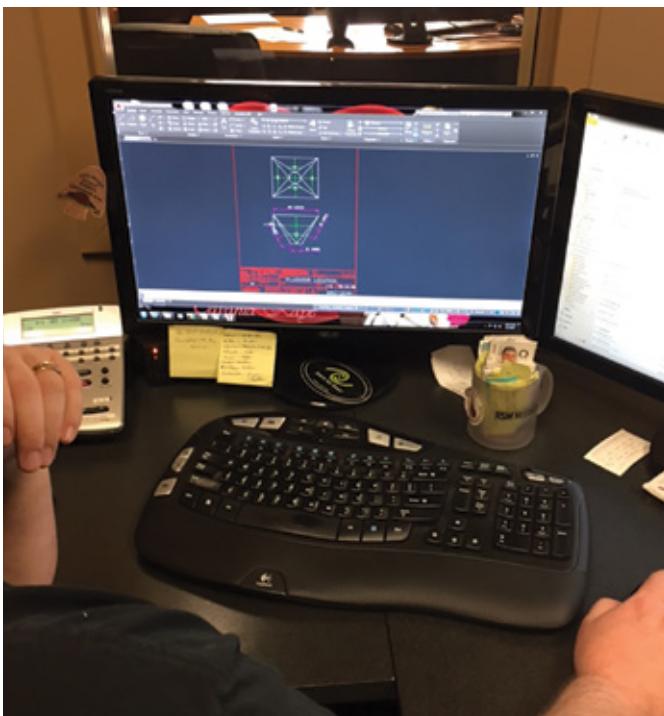
## 16 UNIT CONTROL PACKAGE



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.

# CONTROL PACKAGE SPARE PARTS

ITEM	PART #	ITEM	PART #
<b>Male Connector Tubes:</b>			
Male Connector $\frac{3}{8}$ " Tube, $\frac{1}{2}$ " Pipe.....	2000	Solenoid Valves:	
Male Connector $\frac{3}{8}$ " Tube, $\frac{1}{2}$ " Pipe, SS.....	2000SS	$\frac{1}{2}$ " Solenoid Valve, Brass Body.....	2021
Male Connector $\frac{1}{2}$ " Tube, $\frac{1}{2}$ " Pipe.....	2002	$\frac{1}{2}$ " Solenoid Valve, 24VDC.....	2021DC
Male Connector $\frac{1}{4}$ " Tube, $\frac{1}{8}$ " Pipe .....	2800	$\frac{1}{2}$ " Solenoid Valve, 12VDC.....	2021DC-12
<b>Male Swivel Tubes:</b>			
Male Swivel 90° $\frac{3}{8}$ " Tube, $\frac{1}{4}$ " Pipe.....	2005	$\frac{1}{2}$ " Solenoid Valve, SS Body.....	2021SS
Male Swivel 90° $\frac{3}{8}$ " Tube, $\frac{1}{4}$ " Pipe, SS .....	2005SS	$\frac{3}{8}$ " Solenoid Valve, Brass Body.....	2821
Male Swivel 90° $\frac{1}{2}$ " Tube, $\frac{1}{2}$ " Pipe.....	2007	$\frac{3}{8}$ " Solenoid Valve, 12VDC.....	2821DC-12
Male Swivel 90° $\frac{1}{4}$ " Tube, $\frac{1}{8}$ " Pipe.....	2805	$\frac{3}{8}$ " Solenoid Valve, 24VDC.....	2821DC-24
<b>Male Branch Tee Swivel Tubes:</b>			
Male Branch Tee Swivel $\frac{3}{8}$ " Tube, $\frac{1}{4}$ " Pipe .....	2010	$\frac{3}{8}$ " Solenoid Valve, SS Body.....	2821SS
Male Branch Tee Swivel $\frac{3}{8}$ " Tube, $\frac{1}{4}$ " Pipe, SS.....	2010SS	$\frac{1}{2}$ " EP Solenoid, Ex Proof .....	2024
Male Branch Tee Swivel $\frac{1}{2}$ " Tube, $\frac{1}{2}$ " Pipe .....	2012	$\frac{1}{2}$ " EP Solenoid, Ex Proof, 24VDC .....	2024DC
Male Branch Tee Swivel $\frac{1}{4}$ " Tube, $\frac{1}{8}$ " Pipe.....	2810	$\frac{1}{2}$ " Solenoid Valve, 240VAC.....	2027
<b>Union Tee Tubes:</b>			
Union Tee $\frac{3}{8}$ " Tube.....	2015	$\frac{1}{2}$ " Solenoid Valve, Ex Proof, 240VAC .....	2028
Union Tee $\frac{3}{8}$ " Tube, SS.....	2015SS		
Union Tee $\frac{1}{2}$ ".....	2016		
Union Tee $\frac{1}{4}$ " Tube .....	2815		



**SOLIMAR PNEUMATICS**

**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

ITEM	PART #
<b>Air Tanks:</b>	
Steel Air Tank, 6.5 Gallon.....	2050
Steel Air Tank, 12 Gallon.....	2051
<b>LPDE Tubing:</b>	
¾" LPDE Tubing, Natural.....	2060
½" LPDE Tubing, Natural.....	2061
¾" LPDE Tubing, Black.....	2062
½" LPDE Tubing, Black.....	2063
¼" LPDE Tubing, Natural.....	2860
¼" LPDE Tubing, Black.....	2862
<b>Air Regulators:</b>	
Econ. Air Regulator With Gauge.....	2070
Econ. Air Regulator With Gauge, ¾" NPT.....	2870
Air Regulator With Filter, Gauge .....	2071
<b>Timer Boards:</b>	
Timer Board, 110VAC.....	2040
Timer Board With Enclosure Nema 4.....	2041
Timer Board, With Enclosure Nema 4 (10 Output) .....	2041-10
Timer Board With Ex Proof Enclosure Nema 7.....	2041EX
Timer Board With Ex Proof Enc, Nema 7, 220V .....	2041EXHV
Timer Board With Enclosure Nema 4, 220V.....	2041HV
Timer Board With SS Enclosure Nema 4X.....	2041SS
Timer Board, 24VDC.....	2043
Timer Board, 230VAC.....	2044
Timer Board With Enclosure, 12VDC, Nema 4.....	2045
Timer Board, 12VDC.....	2046
Timer Board With Enclosure, 24VDC.....	2048



# FAST-FIT™ EXTERNAL MOUNTING KITS

ITEM	PART #
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**Fast-Fit™ Kit:**

- Fast-Fit™ Fluidizer Kit (4300 Series) ..... 4900  
 Fast-Fit™ Install Tool (4300 Series) ..... 4910



ITEM	PART #
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**Fast-Fit™ Mini Kit:**

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

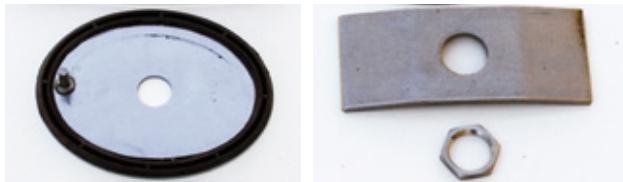


## SILO FLUIDIZER E-Z IN EXTERNAL MOUNTING KITS

ITEM	PART #
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**E-Z In Oval:**

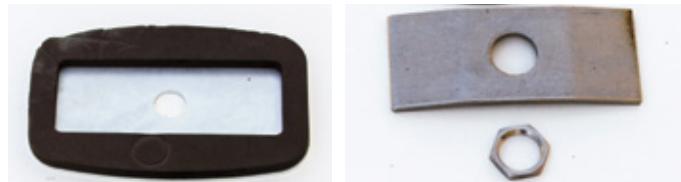
- E-Z In Fluidizer Kit, Oval (4300 Series) ..... 4700  
 E-Z In Fluidizer Kit, Oval (4400 Series) ..... 4740  
 E-Z In Fluidizer Kit, Oval (4500 Series) ..... 4750



ITEM	PART #
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**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

ITEM	PART #
<b>Nuts:</b>	
½" - 14 E-Z In Nut, [4300 Series] .....	4317
½" E-Z In Nut, SS.....	4317SS
¾" - 14 E-Z In Nut, [4400 Series] .....	4417
1" - 11.5 E-Z In Nut, [4500 Series].....	4517
	
<b>Cross Bars:</b>	
Cross Bar, E-Z In [4300 Series].....	4703
Cross Bar, E-Z In, SS.....	4703SS
Cross Bar, E-Z In [4400 Series] .....	4704
Cross Bar, E-Z In [4500 Series].....	4705
	
<b>E-Z In Oval:</b>	
E-Z In Plate, [Oval, 4300 Series].....	4701
E-Z In Plate, SS [Oval, 4300 Series].....	4712
E-Z In Plate [Oval, 4400 Series].....	4741
E-Z In Plate, [Oval, 4500 Series].....	4751
E-Z In Plate, SS [Oval, 4400 Series].....	4781
E-Z In Plate, SS [Oval, 4500 Series].....	4791
	
<b>E-Z Round:</b>	
E-Z In Plate [Round, 4300 Series] .....	4721
E-Z In Plate [Round, 4400 Series] .....	4724
E-Z In Plate [Round, 4500 Series] .....	4726
E-Z In Gasket [Round].....	4722
	
<b>E-Z Rectangle:</b>	
E-Z In Plate [Rectangle, 4300 Series] .....	4731
E-Z In Plate [Rectangle, 4400 Series] .....	4761
E-Z In Plate [Rectangle, 4500 Series] .....	4771
E-Z In Gasket [Rectangle] .....	4732
	
<b>Self-Tapping Screw:</b>	
¼-14 x 1" Self-Tapping Screw, Zinc .....	7159

# E-Z OUT ACCESS DOOR

ITEM	PART #
------	--------

## 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



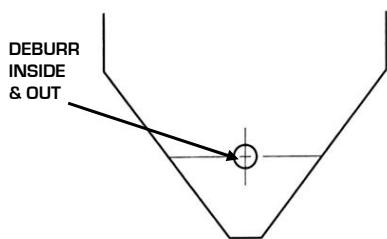
# INSTALLATION INSTRUCTIONS

## Silo Fluidizer Installation:

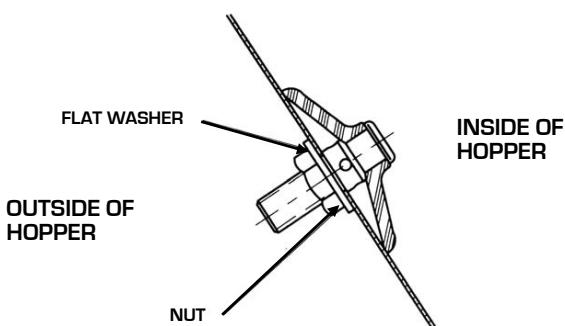
1. Drill appropriate size hole (see table) in silo wall.

Fluidizer	Hole Size - Diameter
43XX	7/8" (22mm)
44XX	1-1/16" (27mm)
45XX	1-3/8" (35mm)
48XX	1/2" (13mm)

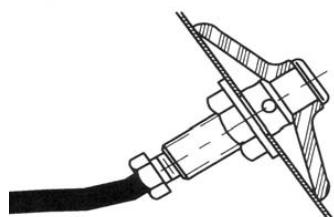
2. Deburr inside and outside of hole. If not deburred, damage to O-ring will occur. Make sure the area where the Fluidizer will be mounted is free of debris or defects (dents, caked material, weld seams, etc).



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.

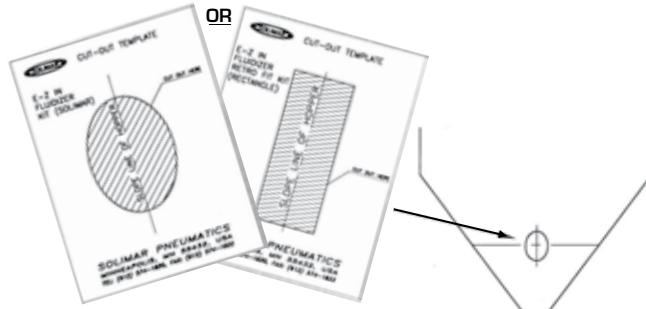


6. Attach air supply line to the stem.

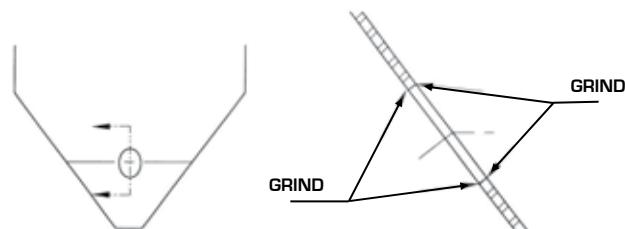


## E-Z In Installation:

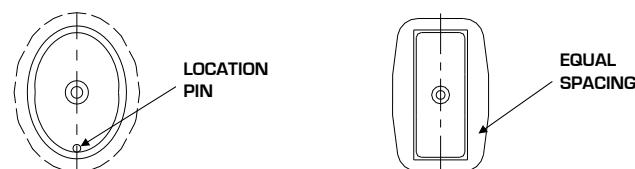
1. Using one of the cut out templates provided by Solimar, trace the pattern on the hopper. On conical hoppers make sure the mounting diameter at the center of the plate is greater than 24". Diameters of 24"-36" will require a curved plate when using the oval kit.



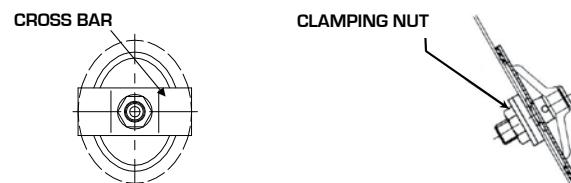
2. Flame cut traced pattern with cutting torch or other means.
3. Grind all surfaces of the cut opening – the inside of the hopper wall must be smooth and free of any burrs or slag.



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.

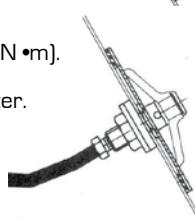


5. On the outside of the hopper, attach cross bar to the Fluidizer plate assembly with the washer and clamping nut.



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

7. Attach the air supply line to the Fluidizer.

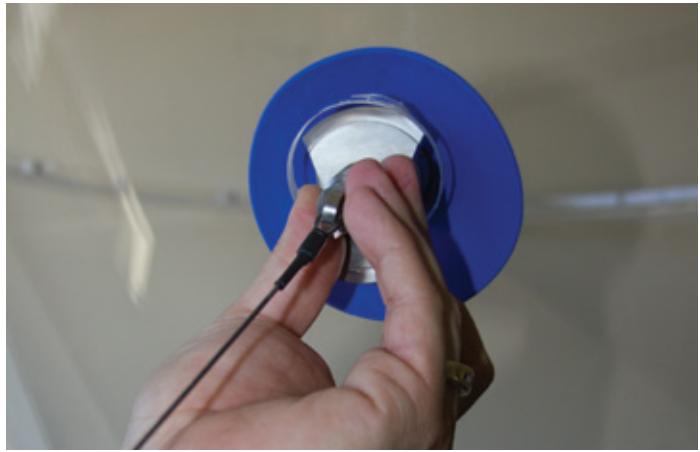


### Fast-Fit™ Installation:

1. 4300 Series- Drill a 2" [50mm] hole at the Fluidizer mounting location. Mini Fluidizer- Drill a  $1\frac{1}{8}$ " [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  $\frac{1}{4}$ " NPT pipe stub and tighten to finger tightness only. [For Mini Fluidizer use  $\frac{1}{8}$ " 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.



## SOLIMAR PNEUMATICS

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