

# ROTARY AIRLOCK VALVES

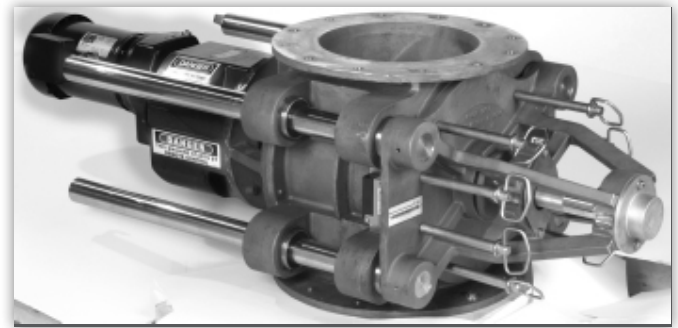
## M-Series

### Klean In Place



The Klean-In-Place Rotary Airlock Feeder is a special purpose valve suited for Dairy, Pharmaceutical, Food, Baking, Chemical, Paint, and Powder Coating plants.

No tools are required to simply remove the headplate, which is attached to the valve housing with easily unscrewed release handles. The four slide bar supports, using linear bearings, provide maximum support of the rotor while it's pulled out and the valve can be thoroughly cleaned, sanitized, and inspected in a short time. This feature makes the Klean-In-Place ideal when frequent cleaning and sanitary service is required to prevent product contamination. It is also effective in batch systems demanding regular cleaning between cycles.



Meets 3A Sanitary Standards

The unique design of the Klean-In-Place incorporates a built-in device that automatically reestablishes the close dimensional tolerances between the rotor and housing and a safety interlock switch. Klean-In-Place valves are available with square or round flanges, standard airlock options, and USDA and sanitary construction. The Klean-In-Place also meets the 3A Sanitary Standards.

### Features

- Stainless steel construction
- Round or square flange available
- Four slide bar support using linear bearings
- Safety interlock switch
- Optional surface finishes
- Standard airlock options
- Direct drive splined coupling
- Minimal shaft deflection

### Benefits

- In place cleaning of all product contact surfaces
- Realignment of rotor without tools
- Sanitary when/where necessary
- Disassemble, clean and reassemble in minutes
- Maximum rotor support when cleaning
- Designed for use in USDA approved plants

### Standard and Optional Features

Level	Cast 304 Stainless	Cast 316 Stainless	Std. Shaft Seals	Teflon Shaft Seals	Sanitary Interior Polish	USDA Construction	Exterior Polish
II	S	O		S			
III	S	O		S	S		
IV	S	O		S	S	S	O

S = Standard O = Optional

### Capacities in Cubic Feet Per Minute

Size	Rotor	CFR	5 RPM	10 RPM	15 RPM	20 RPM	25 RPM	30 RPM	35 RPM
8 x 8	6V	.186	.930	1.86	2.79	3.72	4.65	5.58	6.51
	8V	.176	.880	1.76	2.64	3.52	4.40	5.28	6.16
10 x 10	6V	.386	1.93	3.86	5.79	7.72	9.65	11.58	13.51
	8V	.369	1.84	3.69	5.53	7.38	9.22	11.07	12.91
12 x 12	6V	.650	3.25	6.50	9.75	13.00	16.25	19.50	22.75
	8V	.620	3.10	6.20	9.30	12.40	15.50	18.60	21.70

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Levels designate different types of material and methods of construction. All levels of construction include all the basic features of the K-I-P design.

#### Level II

- Cast 304 SST Housing/Headplates as Cast
- 304 SST Rotor/Shaft Assembly as Welded
- Teflon U Cup Packing

Round	CFR
8x8	0.186
10x10	0.386
12x12	0.65
14x14	1.12

#### Level III

- Cast 304 SST Housing/Headplates
- 304 SST Rotor/Shaft Assembly
- Interior Polished to #4 Commercial Finish
- Exterior as Cast
- Teflon U Cup Packing

Square	CFR
8x8	0.186
10x10	0.386
12x12	0.65

#### Level IV

- Cast 304 SST Housing/Headplates
- USDA Design- Drive Side Headplate One Piece Seamless Weldment to Housing
- 304 SST Rotor/Shaft Assembly
- Interior Surfaces Polished to #4 Sanitary Finish
- Exterior as Cast
- USDA approved Teflon U Cup Packing

#### Your ONE Stop Source

- Turn-Key Pneumatic Convey & Bulk Storage System
- Bulk bag Unloader
- Loss - in - Weight Feeder
- Blow - thru Adapters
- Carbon Steel, Aluminum, Stainless Steel Convey Tube Pipe, Elbows and Couplings
- Convey line Accessories
- Hoppers and Work Bins
- PD Blower Packages

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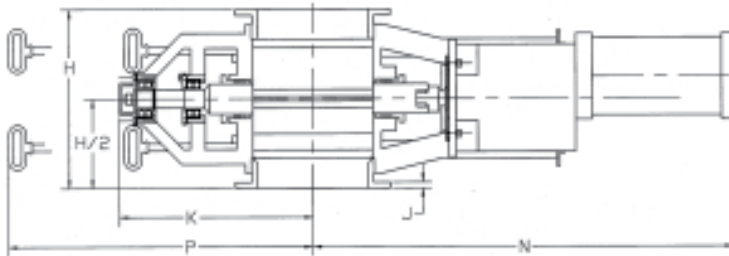
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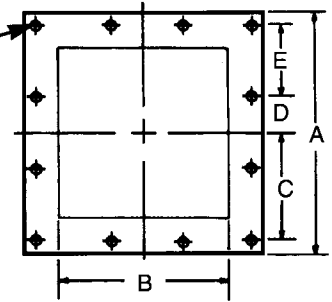
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### Klean In Place



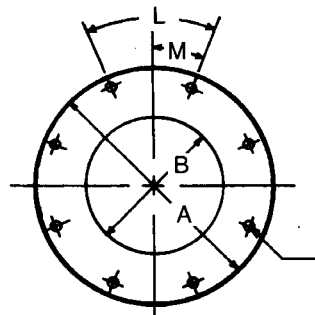
G Dia.  
F No. of Holes  
No Holes in corners on 8 x 8



#### Klean-In-Place Square Flanges\*

SIZE	A	B	C	D	E	F	G	H	J	K	N**	P
8 x 8	11	7 <sup>1</sup> / <sub>2</sub>	4 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>8</sub>	8	7 <sup>7</sup> / <sub>16</sub>	12	1 <sup>1</sup> / <sub>2</sub>	14 <sup>1</sup> / <sub>2</sub>	33 <sup>3</sup> / <sub>4</sub>	28
10 x 10	13 <sup>1</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>2</sub>	6	2	4	12	9 <sup>9</sup> / <sub>16</sub>	15	1 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>2</sub>	35 <sup>7</sup> / <sub>8</sub>	30 <sup>1</sup> / <sub>2</sub>
12 x 12	16 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>4</sub>	7 <sup>5</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>8</sub>	12	9 <sup>9</sup> / <sub>16</sub>	18 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>2</sub>	38 <sup>7</sup> / <sub>16</sub>	39 <sup>7</sup> / <sub>8</sub>
14 x 14	CONSULT FACTORY											
16 x 16	CONSULT FACTORY											

\* Dimensions not for construction purposes  
\*\* Approximate, depending on drive



C Bolt Circle dia.  
D Dia. of Holes  
E No. of Holes

#### Klean-In-Place Round Flanges\*

SIZE	A	B	C	D	E	H	J	K	L	M	N**	P
8 x 8	13 <sup>1</sup> / <sub>2</sub>	8	11 <sup>3</sup> / <sub>4</sub>	9 <sup>9</sup> / <sub>16</sub>	8	12	1 <sup>1</sup> / <sub>2</sub>	14 <sup>1</sup> / <sub>2</sub>	45	22 <sup>1</sup> / <sub>2</sub>	33 <sup>3</sup> / <sub>4</sub>	28
10 x 10	16	10	14 <sup>1</sup> / <sub>4</sub>	11 <sup>11</sup> / <sub>16</sub>	12	15	1 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>2</sub>	30	15	35 <sup>7</sup> / <sub>8</sub>	30 <sup>1</sup> / <sub>2</sub>
12 x 12	19	12	17	11 <sup>11</sup> / <sub>16</sub>	12	18 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>2</sub>	30	15	38 <sup>7</sup> / <sub>16</sub>	39 <sup>7</sup> / <sub>8</sub>
14 x 14	CONSULT FACTORY											
16 x 16	CONSULT FACTORY											

\* Dimensions not for construction purposes  
\*\* Approximate, depending on drive

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