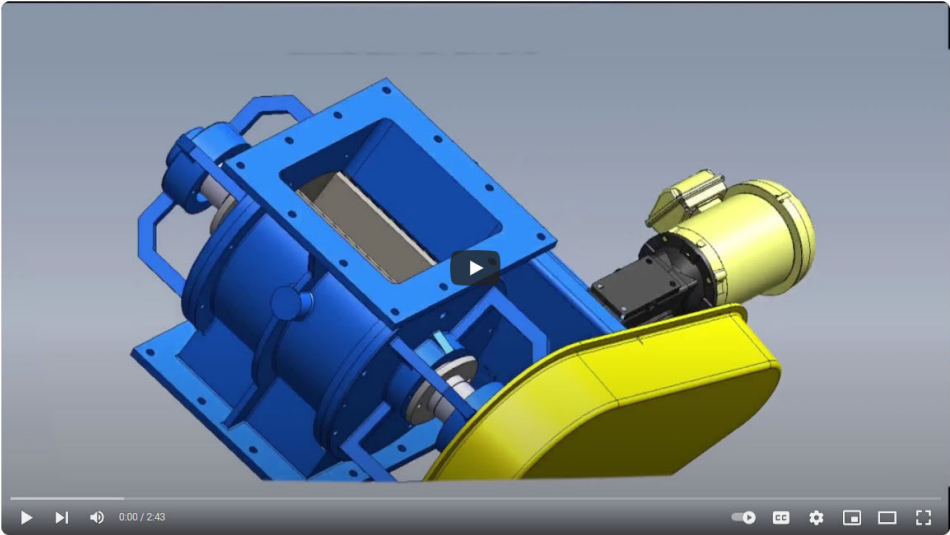


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Meyer Rotary Valve Basics

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For over 70 years Meyer Rotary Airlock Valves have been leading the industry in design, workmanship, functionality, longevity and serviceability. These Rotary Airlock Valves are used where there's a need to minimize system air loss while transferring material between vessels with differing pressures. The video illustrates the basic components and functionality of the rotary valve and the three basic applications that it can be used for; metering and feeding, airlock, and airlock feeder. The valves can be used in a wide variety of applications such as agriculture, aggregates, asphalt, cement, food, dairy, pharmaceuticals, energy, mining, minerals, plastics, steel mills, wood, and others.

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0:00 [Music]

0:09 rotary airlock valves are used where

0:11 there's a need to minimize air loss

0:13 while transferring material between

0:15 vessels with differing pressures the

0:18 rotary valve has four main components

0:20 the housing the head plates the rotor

0:23 and the drive arrangement there are

0:27 three basic application types metering

0:30 and feeding airlock airlock feeder

0:33 metering feeding is where the valve is

0:35 not responsible for air pressure sealing

0:38 but only metering material at a set

0:40 fixed rate as the vanes rotate material

0:43 enters through the top into the non-rotate

English (auto-generated)

All

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0:00

[Music]

0:09

rotary airlock valves are used where

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metering feeding is where the valve is

0:35 not responsible for air pressure sealing

0:38 but only metering material at a set

0:40 fixed rate as the vanes rotate material

0:43 enters through the top into the pockets

0:45 and then exits through the bottom outlet

0:48 to a bin conveyor or other device the

0:51 airlock provides a seal between two

0:54 pressure zones above and below the valve

0:56 these can be positive negative or

1:00 sometimes both the primary concern is

1:03 handling the pressure differential and

1:04 minimizing leakage there are two types

1:07 of valve leakage the first is clearance

1:09 leakage which occurs around the
1:11 perimeter of the valve the second is
1:13 displacement leakage which is the air
1:16 that is trapped in the empty rotor
1:17 pockets clearance leakage plus
1:20 displacement leakage equals total
1:22 leakage some of the ways to minimize
1:25 valve leakage includes increase the
1:28 number of vanes on the rotor from six to
1:30 eight or even 10 install contact type
1:33 seal strips like polyurethane neoprene
1:36 or Teflon provide tighter rotor vane
1:40 clearance the airlock feeder combines

1:42 the functionality of a metering feeder

1:45 and an airlock in addition to the

1:47 airlock options shown the following

1:49 could also be applied rotor selections

1:52 and type materials of construction

1:55 rotary valve speed shaft purge options

1:59 to ensure that your rotary valve

2:01 operates smoothly these material

2:03 characteristics are a critical aspect

2:06 first what is the material to be

2:09 processed what is the composition and

2:12 bulk density of

2:13 material what temperature will the valve

2:18 this is important because dry material

2:20 will flow smoothly through the valve

2:22 while wet material may cause some

2:25 operating problems all of these material

2:28 characteristics will play a key role in

2:30 the performance of the rotary valve to

2:32 discuss your rotary valve application

2:35 requirements contact Myer at one eight

2:38 hundred nine six three four four five

2:41 eight

2:42 [Music]

English (auto-generated)