

The Conveying Diverter



the power
in
powders

The Conveying Diverter

“the essence of conveying is high throughput with minimal damage and separation.”



The Flap Type Diverter Valve

Carolina Conveying manufactures a range of Flap Diverters, which are used in the pneumatic conveying industry to reroute powder, pellets or granules from one discharge to another.

The Flap Type Diverter consists of a robust body manufactured in two sections, split at a center flange for ease of access to the internal sealing flap.

With the special cone transition at the inlet, the sealing area within the cone forms a complete parabola and therefore an efficient internal seal can be maintained without

resorting to sealing ledges - increasing the conveying line pressure, the rubber wiper seals more effectively.

Internals are clean, with no lodgement points, and the transition from one line into two is gradual, limiting turbulence and therefore pressure drop. Similarly, by the streamline design, the valve will also feed from two lines into one - again with no lodgement areas.

Choice of materials can cater for the majority of applications and by plating the body and internal components the semi-abrasive fields can be covered.

The spigotted ends are connected to pipework with “Morris” type couplings, facilitating quick access in case of blockages. It also gives flexibility in pipe length accuracies and misalignment variation. Furthermore, the Carolina Conveying spigotted ends are not of cast fixed length, but bolted on and of variable length. This enables the end to be supplied to fit exactly to existing pipework.

important features

- Compact design.
- Small divert angle.
- Low pressure drop.
- Smooth internals.
- Pneumatic or manual.
- Wide range of materials.
- Higher pressure gives greater seal.
- Dust tight to 20 p.s.i.
- Easy access and maintenance.
- Pneumatics and switches housed in guards.

specification

BODIES

Cast in aluminum, stainless steel or cast iron.

FLAP VALVES AND SPINDLES

Carbon Steel or Stainless.

WIPER SEAL

Polyurethane or food quality rubber. Temp limitation 350° F.

SHAFT SEAL

Rubber ‘O’ ring.

ACTUATION

Air cylinder, Electric Linear Actuator or manual.

PNEUMATIC VERSION

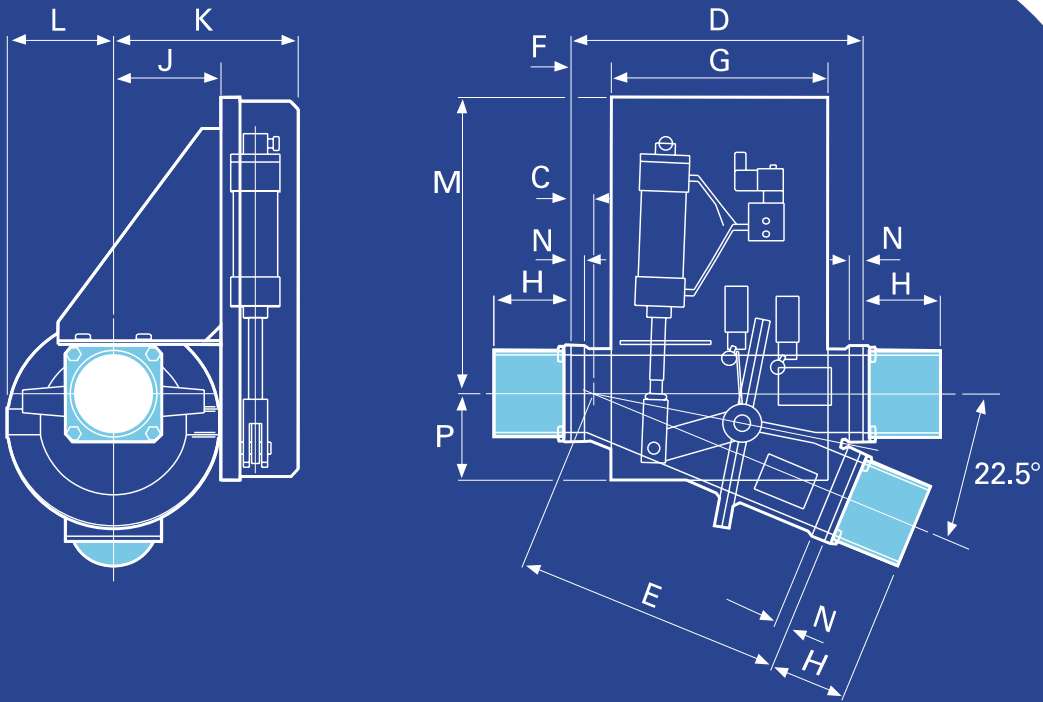
Complete with five-port four-way single solenoid return valve.

LIMIT SWITCHES

Available to indicate open/closed conditions. Pneumatics and switches housed in guards.

SPIGOTS

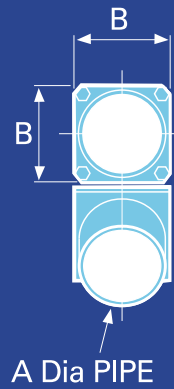
Pipe, Tube or Pipe Flanged connections.



**0° x 22.5° SPIGOT
CONVEYING DIVERTERS**

**RIGHT HAND UNIT SHOWN
LEFT HAND UNIT ALSO AVAILABLE**

**PLANNING IN DETAILS
FOR GENERAL GUIDANCE ONLY**



sizes	A Pipe	B	C	D	E	F	G	H	J	K	L	M	N	P
2	2" N/B	3 3/4	3/4	11	10 1/4	0	9 7/8	4	3 5/8	7 5/8	3 1/2	12 5/8	3/4	3
2 1/2	2 1/2" N/B	4	3/4	11 3/4	11	3/16	9 3/4	4	4	8	4	13	3/4	3 1/4
3	3" N/B	4 1/2	3/4	14 1/8	13 3/8	1	9 3/4	4	4 3/8	8 1/2	4 3/8	12 7/8	3/4	3 3/8
4	4" N/B	5	1 3/16	15 3/16	14	2	11 1/4	4	5 1/2	9 1/4	5 1/2	15 3/8	3/4	4 1/2
5	5" N/B	6	1 3/16	19	17 7/8	4	11 1/4	4	6 3/8	10 3/8	6 3/8	15	3/4	4 7/8
6	6" N/B	7 3/4	1 3/8	18 7/8	17 1/2	4 3/4	11 1/4	4	7 1/4	11 1/4	7	15	3/4	5



Carolina Conveying

Specialists

in powder handling components and systems. We offer a very comprehensive range of products including Rotary Airlocks, IBC Systems, Diverter Valves, Silo Dischargers, Volumetric and Weighing Systems, Aero-mechanical Conveyors and Dense Phase Conveying Systems.

Carolina Conveying

Technology

product test facility with our complete range of machines allowing prospective clients to visit and witness trials. State of the art CAD and manufacturing facilities for material handling systems.

Carolina Conveying

Design

products are always designed to suit your particular application and requirements.

Carolina Conveying

Philosophy

our policy is to supply customers with products which conform to the highest quality specifications, are fit for their intended purpose, and offer a wide range of support services including installation, commissioning and service contracts.



Bin Activators

Soliflo™ Dischargers

Solibin™ IBC Systems

Bulk Bag Systems

Rite Rate™ Feeders

Rite Weight™ Feeders

**DiscAir™
Aeromechanical
Conveyors**

**Blo-Bin™ Dense Phase
Pneumatic Conveying**

**Blo-Bend™ Ni Hard
Bends**

Rotary Valves

**Side Entry Rotary
Valves**

**Blow Thru Rotary
Valves**

Double Dumps

**Flexible Conveying
Diverters**

**Flap Conveying
Diverters**



Carolina Conveying Inc.
P.O. Box 1208, Beaverdam Industrial Park
162 Great Oak Drive, Canton, NC 28716
Tel: (828) 235-1005 Fax: (828) 235-1006

www.carolinaconveying.com
email: sales@carolinaconveying.com