# **GOYEN CONTROLS**

## RCA25TD 1" SINGLE DIAPHRAGM DUST COLLECTOR VALVE MODELS 2561

#### DESCRIPTION

Model 2561 is equipped with a 1/s" Pilot Connection and contains a standard diaphragm of Buna sheet stock with Nylon disc. Valve is right angle, external pilot operated, single diaphragm design, for rapid cycling Dust Collector service. The only moving parts are the diaphragm and diaphragm spring. Valve is provided with bleed passage located in the clamped portion of the diaphragm, which extends diaphragm life. This quick acting design gives high flow to ensure high peak pressure in the blow tube.

### CONSTRUCTION

Body and cover are pressure discast aluminum. Standard diaphragm is made from a Buna N Clastomer, reinforced with Nylon Mesh and Nylon Disc. Optional diaphragms are available with Buna disc and in Viton\* with Viton\* disc.

### **SPECIFICATION**

Inlet Port : 1" Tapered pipe threads
Outlet Port : 15/x" Dia. Straight Pipe
Pilot Connection Port : 1/x" Tapered pipe threads
Orifice Diameter : 1"

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Cv Flow Factor : 18.5

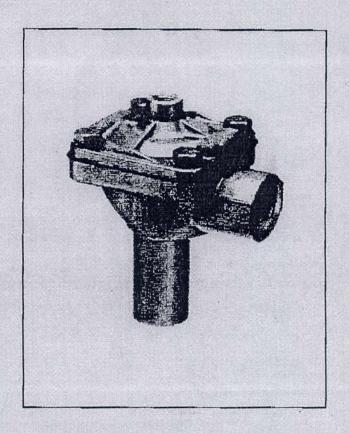
Media : Air or Nitrogen
Operating Pressure : 110 PSI Maximum\*
Temperature Range : -40°F to + 200°F (Buna N)
: -25°F to + 450°F (Viton®)

\*Maximum Safe Body Working Pressure is 125 PSI

#### **OPERATION**

For optimum performance, valve should be connected to the RCA3D2-T pilot solenoid valve, using 1/2" OD tubing with minimum ID of 0.160". If tubing of larger ID is used or length of tubing exceeds 3 feet maximum recommended length, the ratio of mechanical on time to electrical on time will be increased. Recommended electrical on time range is 50 to 100 Milliseconds.

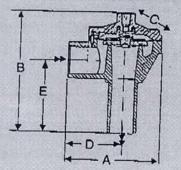
The valve is equipped with internal bleed passage and utilizes system pressure for operation. When the solenoid pilot valve is energized, this exhausts the top of the diaphragm, allowing system pressure to flow through the diaphragm valve. When solenoid pilot valve is de-energized, the operating cycle is reversed.



### INSTALLATION

Both diaphrogm and pilot valve will operate in any position. Care must be taken to remove condensate from compressed air supply and to position valves, so that rain and/or other foreign substances will not enter the exhaust ports. Connect 1" inlet port to air supply header and the 1½" outlet port to the blow pipe. A suitable thread sealant should be applied to pipes before parts are engaged. Use caution not to over apply pipe sealant and not to over torque fittings, which can cause damage to valves. Connect appropriate sized tubing between the ½" pilot connection located on the top of the diaphragm valve to the inlet of the ½" pilot solenoid valve.

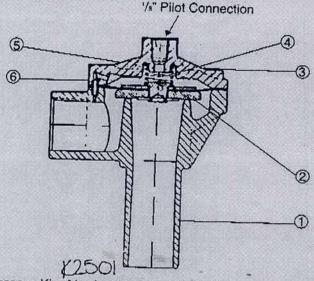
# RCA25TD DIAPHRAGM VALVES



## DIMENSIONS

INCHES MM INCHES MM INCHES		Name of the last o	D		C: WIDTH		В			
		thinnen I		INCHES	mm	INCHES	HEC mm	INCHES	mm	INCHES
4.00   102   5.50   139   3.25   82.5   2.37   60   3.23	mm	INCHES	mm	ACCORDING TO SECURITY OF THE PARTY OF THE PA			427	5.50	102	4.00

## DIAPHRAGM KITS



## PARTS IDENTIFICATION

The State of the S	DESCRIPTION	ITEM
<b>宝</b>	RCARSTO BODY	
	DIAPHRAGM ASSEMBLY	5
	"" UND X "A" HEX BOLT	3
	DIAPHRAGM SPRING	4
	COVER	5
DIAPHRAGM KIT PART	ROLL PIN	â

Diaphragm Kit No. M11838

No. M736 No. M1887 (Buna N/Nylon Disc) (Buna N/Buna Disc) (Viton®/Viton® Disc)

k2503

Note: Kits are also suitable for Models Nos. 2513 & 2550

## SERVICE

Most maintenance work can be carried out with the valve in it's installed position. Before performing maintenance, electrical power and compressed air supply must be turned off and supply header must be drained of pressure. In case of valve malfunction check the following:

### WILL NOT OPEN

Confirm adequate electrical service Check continuity of coil Dirt blocking pilot valve orifice Dirt in pilot valve connecting tubing Worn pilot valve plunger Diaphragm perforated Exhaust ports blocked

## WILL NOT CLOSE

Leaking pilot valve Broken connecting tubing to pilot valve Coil energized continuously Pilot valve plunger jammed open Broken diaphragm springs Diaphragm bleed holes blocked Air supply line to the header too small

See Form No. ISI/CASDO1 for RCA3D2-T Pilot Valve Instructions

Goyen Valve Corp.

WEST COAST 25327 Ave. Stanford - Valencia, California 91355 (805) 257-0566 FAX (805) 257-8990

EAST COAST 1195 Airport Road - Lakewood, New Jersey 08701 (908) 364-7800 FAX (908) 364-1356 Form No. ISI/CAS 009