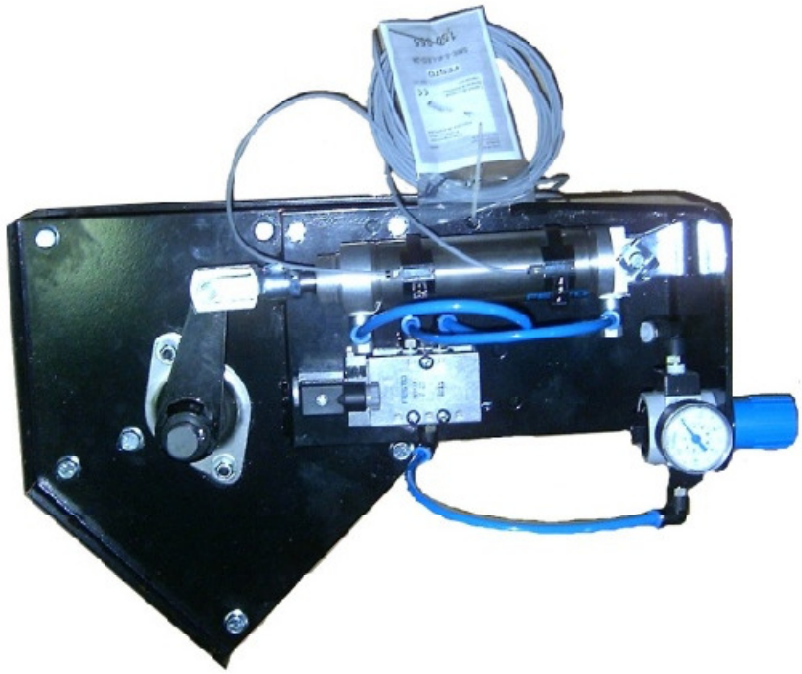
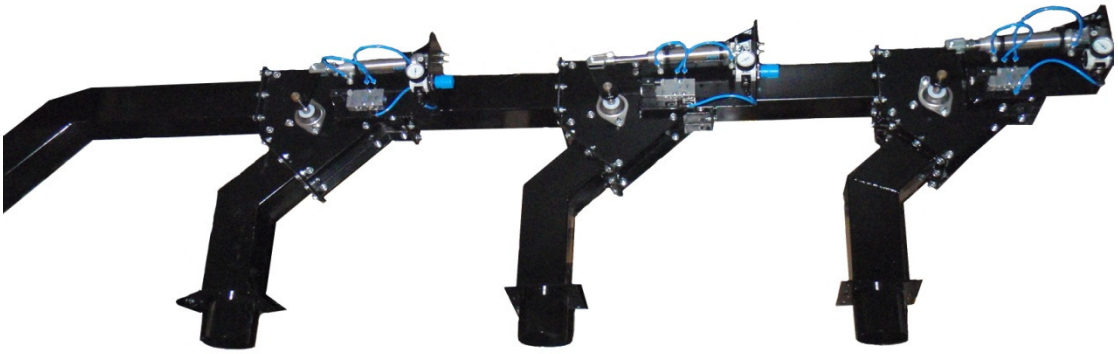
PNEUMATIC DIVERTER VALVE & PNEUMATIC MANIFOLD-SUCTION NOZZLE

EFFECTIVITY – 2010 STANDARD





GENERAL: The diverter valve is designed to control flow of air and material through a duct *network. The diverter valve provides smooth flow of fibrous material in both directions and in* pressure and suction systems. An internal gate governs material flow direction. Signaling an electric air valve, which operates a two-way cylinder that is connected to the gate by means of a lever, changes gate position. The signal may be sent manually, by another machine or by a timer.

OPERATION: The diverter gate which determines material flow direction, is moved through its rotation by means of a lever and a pneumatic cylinder. A 4-way solenoid operated pneumatic valve governs cylinder travel. The solenoids react to an electric signal from a manually thrown switch, a timer or other machinery. Typical solenoid voltage is either 24VDC or 110VAC. Cylinder travel speed is controlled by means of adjusting the air flow on the pneumatic valve. The regulator included regulates air pressure. Air pressure should be kept between 30 and 60 PSI.

MAINTENANCE

-WARNING- BE SURE ALL ELECTRICAL DISCONNECTS HAVE BEEN TURNED OFF AND THE PANEL(S) LOCKED OUT BEFORE ANY TROUBLESHOOTING, REPAIR OR SERVICE IS PERFORMED.

The diverter valve should be visually inspected periodically to ensure it is in good working order. Check for air leaks, valve and cylinder operation, and mechanical damage. The diverter valve body is fairly rugged in construction and should last a very long time if the air pressure is kept at 30 to 60 PSI and the gate travel is dampened by use of the SPEED ADJUSTER PLATE. If one hears a **SLAM** when the diverter switches positions, this indicates adjustment is needed to the SPEED ADJUSTER PLATE.

CAUTION: Excessive air pressure, combined with a quick divert of the blade can cause the diverter blade to break from fatigue!

SPARE PARTS LIST: When placing the order, please have the following information available:

1. Diverter size (measure the Dimension C – figure 1)
2. Complete description of the part
3. Quantity needed
4. Voltage
5. Shipping information

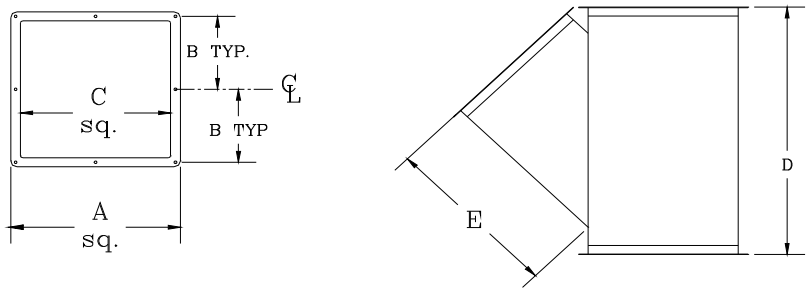
Please refer to Figure 2 & 3

	PART DESCRIPTION	IBIS PART NUMBER
1.	Air Cylinder	188597
2.	110vac Solenoid Valve	6720
3.	24VDC Solenoid Valve	4527
4.	Clevis Mount	188994
5	Rod Clevis	6145
6.	Pressure Regulator	162582
7.	Flow Control	193144
8.	Valve	9982
9.	Elbow Connector	153046
10.	Clevis Mount	188994
11.	L-Connector	533235
12.	Reed Switch	150855
13.	Mounting Bracket for Reed Switch	175098
14.	6mm Poly Tubing	159664

INSTALLATION

Refer to Figure 1, 2 & 3 during installation

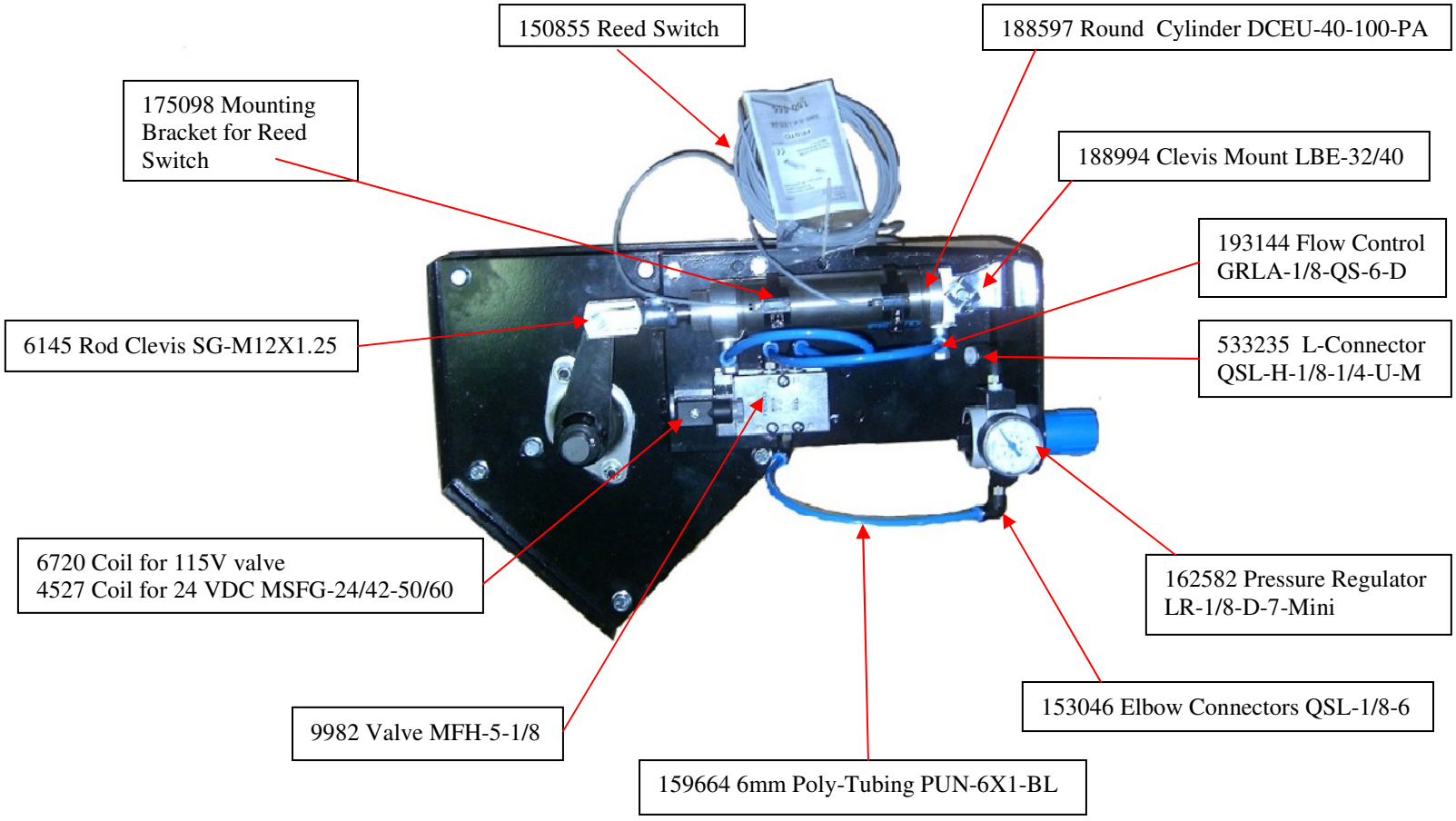
STEP 1 – Install diverter in duct network using square to round transitions as required. (NOT INCLUDED WITH DIVERTER PACKAGE)
STEP 2 – Connect 90 PSI MAX air line to inlet on air regulator.
STEP 3 – Set regulator to 30-60 PSI
STEP 4 – Test the inward and outward cylinder stroke by depressing the manual operator button.
STEP 5 – Turn the SPEED ADJUSTER PLATE adjustment screws until 1 to 2 second cylinder strokes are obtained. (Clockwise adjustment will slow down the respective stroke).



MODEL	A	B	C	D
DV-4	6	2-5/8	4	13
DV-6	8	3-5/8	6	16
DV-8	10	4-5/8	8	18
DV-10	13	5-3/4	10	22
DV-12	15	6-3/4	12	24-3/4
DV-14	17	7-3/4	13	28-1/2
DV-16	20	9-1/8	16	33-1/4
DV-24	27	12-1/4	24	43-3/8

Figure 1

GENERAL PART DESCRIPTION`

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