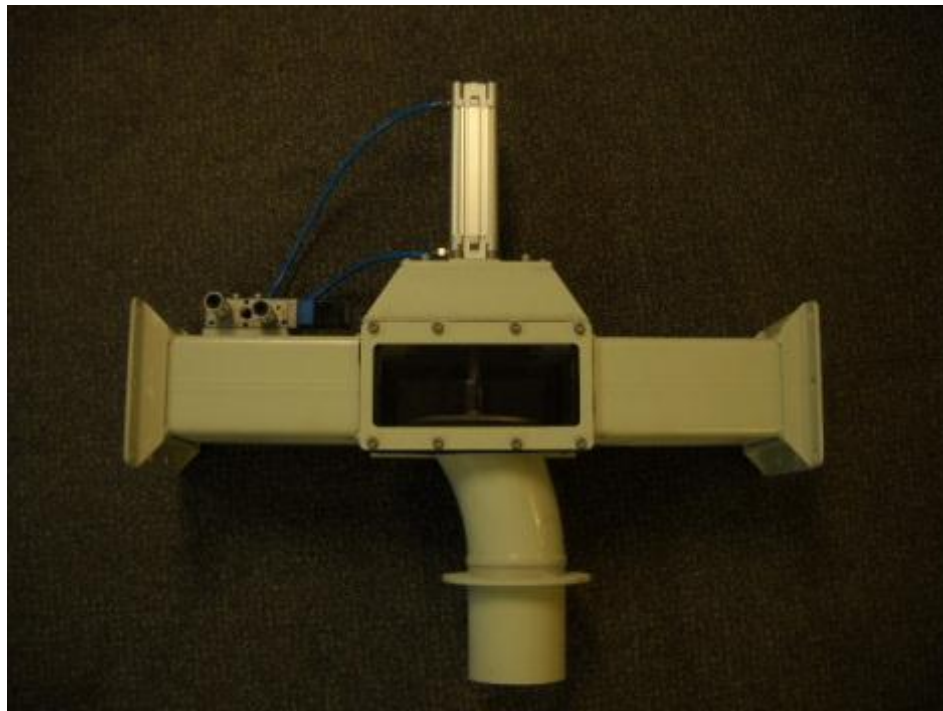




**PNEUMATIC POPPET VALVE VALVE &
POPPET VALVE-SUCTION NOZZLE**

EFFECTIVITY – 2010 STANDARD



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

OPERATION: The poppet valve sealed disc 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 poppet 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 poppet 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 sealed disc travel is dampened by use of the SPEED ADJUSTER PLATE. If one hears a **SLAM** when the poppet valve 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 poppet valve blade to break from fatigue!

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

1. Poppet valve size
2. Complete description of the part
3. Quantity needed
4. Voltage
5. Shipping information

	PART DESCRIPTION		IBIS PART NUMBER
1	KC POPPET DISC SEAL		DVP11027013PDS
2	KC POPPET VALVE LEXAN WINDOW		DVP11027007LXN
3	AIR CYLINDER 100mm STROKE, M12-1.75 THREADS, FESTO #DNC-40-100PPV-A (163341)		DVP11027700CYL
4	POLYURETHANE TUBE 6mm OD X 4mm 10 X 12' LONG, BLUE, FESTO #PUN-6X1-BL (553907)		DVP11027701TUB

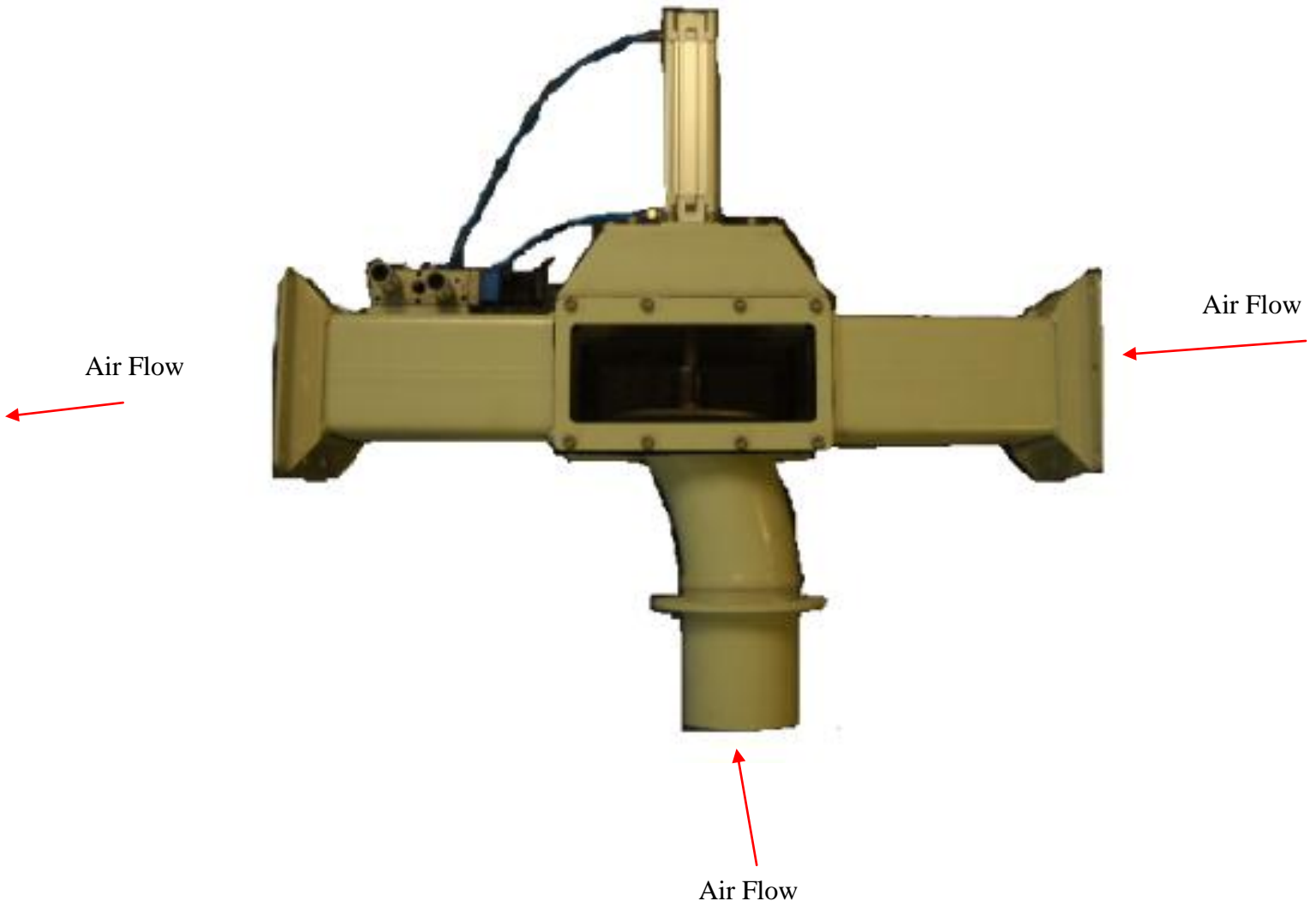
5	POLYURETHANE TUBE 6mm OD X 4mm 10 X 12' LONG, BLUE, FESTO #PUN-6X1-BL (553907)		DVP11027701TUB
6	SOLENOID VALVE, G1/4" ISO PORT, FESTO #MVH-5-1/4-B (19701)		DVP110277023VB
7	PLUG SOCKET W/5 METER CABLE, FESTO #KMV-1-24-5-LED (30941)		DVP11027703PLG
8	FITTING, PUSH-IN, FESTO #QS-1/4-6 (153003)		DVP11027704FIT
9	SILENCER, FESTO #U-1/4-B (6542)		DVP11027705SIL
10	CYLINDER FLANGE MOUNT, FESTO #FNC-40 (174377)		DVP11027706MNT

INSTALLATION

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- STEP 1 – Install poppet valve in duct network using square to round transitions as required. (NOT INCLUDED WITH POPPET VALVE 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).

Figure 1



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