

DAV 600

VOLUMETRIC DISPENSING VALVE

DAV tech sas

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1 INTRODUCTION

1.1 Instruction manual

The instruction manual is a part of the valve and it has to be kept in good condition.

Read the manual before installation and maintenance.

Keep the manual at hand for any consultation.

User has to know the content of this manual.

It is forbidden to copy or reproduce totally or partially this manual without DAV Tech written approval.

Text and figures are not a commitment for DAV Tech, that keep the right to change them for modification or improvement of the product.

1.2 Warranty

Warranty includes the replacement or reparation free of charge of all the parts that under normal use and service proves defective in material or workmanship

1.3 Good check

Do not change or modify the original configuration of the valve.

As you get the good, please check that:

- Packaging is not damage
- The good is exactly the ordered one

1.4 Application fields

- Packaging machines
- Assembly machines
- Paper collating/converting
- Carton box maker
- Printing machines
- Food industry

NOTE

We thank you for your attention and you are invited to report to us any recommendation, suggestions or mistakes that can occur by using our products.

2 SAFETY NORMS

This instruction manual gives you all information to prevent accidents and a safety use of the products.

2.1 Terms explanation

Here below you will find the terms used on this manual..

Intended purpose

The term 'intended purpose' refers to such a use as can be concluded from the details given by the manufacturer. 'Intended purpose' can also mean such a use as would be seen as common on account of the design, construction and function..

Secondary hazard

A 'secondary hazard' is a danger that is not obvious and ensues from the use itself of the machine. Secondary hazards are unavoidable despite all the preventive measures that have been taken.

Competent personnel

A person is competent when he has acquired sufficient knowledge in a special field either by vocational training or experience. A competent person must also be familiar with the specific regulations for safety at work and prevention of accidents and with the generally acknowledged technical rules.

Instructed personnel

A person is instructed when he has been informed by a competent person about the tasks he is meant to do and the risks ensuing from improper behavior and, if necessary, has received the required training. In addition, an instructed person has been taught about necessary safety devices and protective measures.

Qualified personnel

A qualified person is a competent person or a sufficiently instructed person.

2.2 Symbols explanation



CAUTION

2.3 Proper use

The DAV 600 valve is produced following the safety rules.

The DAV 600 valve has to be used only with water base fluid or other compatible fluids with a maximum pressure of 150 bar.

Only qualified persons are authorized to install the valve.

Before installation and use the valve read carefully this instruction manual.

Use DAV 600 valve only in the field application written in this manual, respect all parameter and data written on this manual.

All other use has to be considering not proper.

2.4 Valve installation

Before the installation and use of the valve this manual has to be read and understood.

Keep this manual in a place easy to reach for the operator.



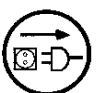
Electrical connection has to follow the safety rules and done by a qualified person.



Before the connection of the fluid pipe be sure that the pressure is off.

2.5 Valve use

During valve operation follow the safety rules of this kind of application.



In any case if you have to disassembly the valve, before disconnect the power cord and discharge the fluid pressure.

Check time to time the cable and the connection to point out any damage, in case of intervention cut the power and discharge the pressure.

2.6 Valve maintenance



All the maintenance operations has to be done by a qualified person and after that the power is off and the fluid pressure discharged.

To clean the nozzle use only cleaning needle supplied from the valve producer.

Using other sharp tool the nozzle can be damage.

Use only original spare parts.

2.7 Valve handling

➤ To use the DAV 600 valve with fluid or paste check the following points:

The viscosity is into range that the valve can handle.

Fluid is suitable for the use you need.

Fluid data sheet supplied by the fluid producer has all the information as: viscosity, application, shelf life and gluing time.

This data sheet has to be required to the fluid producer.

3 TECHNICAL DESCRIPTION

3.1 Valve description

The pneumatic piston have to be driven by a solenoid valve 5/a

The moving of the piston make a constant and reliable dispensing of fluid shots

The outlet pressur of the fluid depend from the feeding pressure

The pneumatic drive is designed to be never in contact with the fluid

The valve have mounted on the stroke regulation a sensor holder. Using a sensor is possible to check problems regarding feeding of the fluid or valve problems.

The sensor give a signal when the dispensino start.

To be sure of the function of the sensor is necessary to dispense at least 15% more of the minimum shot possible of the valve

3.2 Technical specification

Fluid pressure	Max 150 bar
Driving pressure	6 bar
Min. shot/stroke	0,1 cc
Max. shot/stroke	3 cc

4 INSTALLATION

4.1 Mounting on the plan

- Before mounting the valve please check that the plant have all the necessary safety regulations
- The installation have to be done by skilled personal, respecting all the law safety rules
- The valve is not done to work on open air or aggressive places
- DAV Tech declines every responsibility in case the valve will not be used in the right way.

a. Mounting plate creation

Follow the dimension in the attached draw

b. Installation

The installation have to be done while the working machine is switched off

Nota 1

To guarantee the better working situation please feed the dispenser with 5-7 bar of compressed air. To have the best results is important to maintain a constant feeding pressure.

Nota 2

All the valves are checked from the manufacturer. All resto f grease or other fluids are completely normal.

- 1) Check the feeding tube to control the presence of any air bubble or leaking of fluid.
- 2) For first open the valve completely as you want to dispense the biggest possible amount.
- 4) When the grease flow regularly move the screw regulation until the desired amount of fluid.
- 5) Take care of the distance between dispenser and dispensing place. The better results will be reached with the smallest possible distance
- 6) Dispensing cycle-time depend from the viscosity of the fluid and the quantity of fluid to dispense
- 7) Mount the valve over the apposite interface

5 DISPENSING VALVE REGULATION

5.1 Pneumatic piston regulation

Rotating clockwise or conter clockwise the screw regulation the quantity of fluid dispensed will change decreasing or increasing it.

6 TROUBLE SHOOTING

6.1 Trouble shooting

The trouble shooting have to be made only by skilled personal

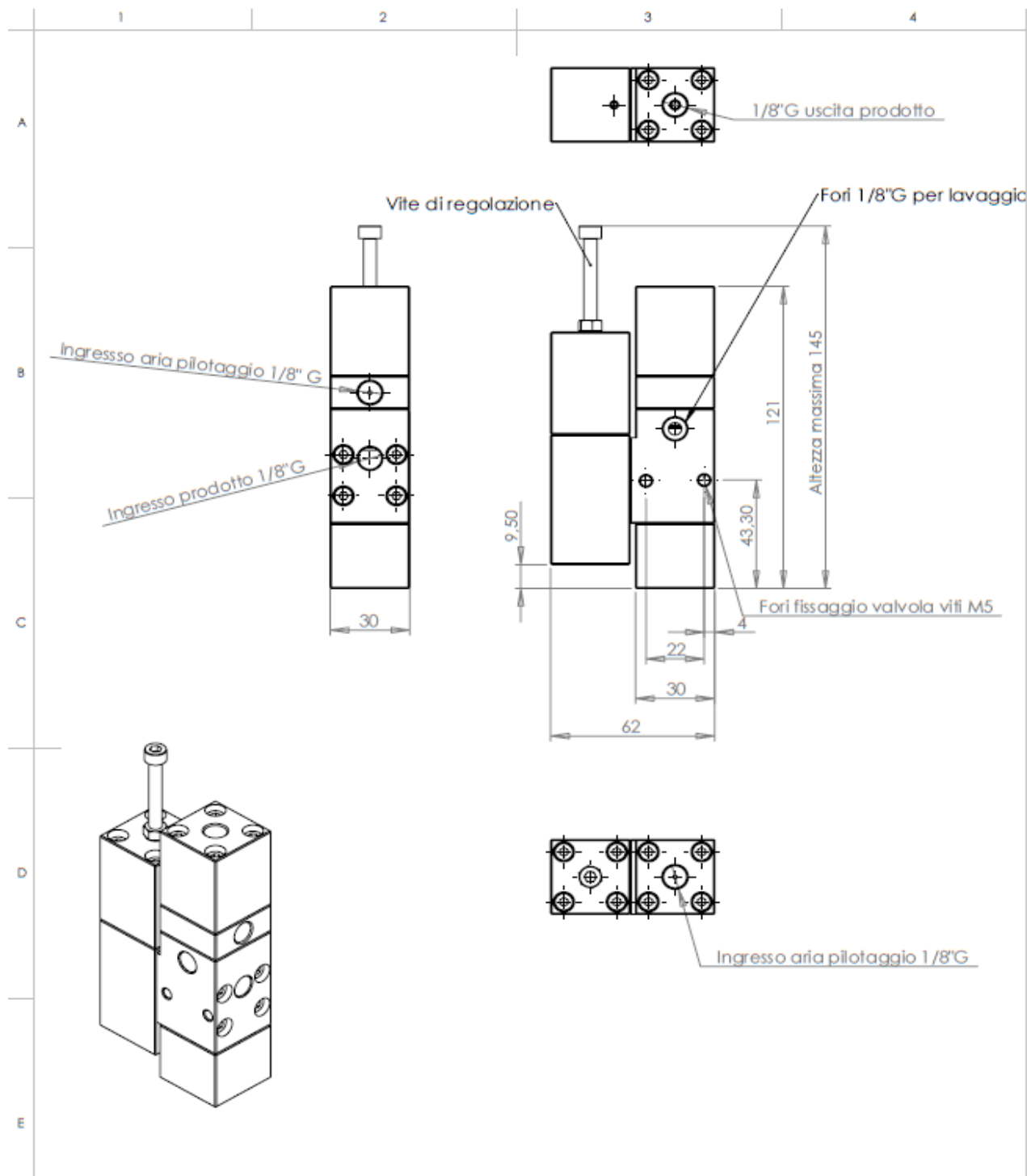
Problem	Cause	Solution
The valve is driven but no fluid is dispensed	Manca prodotto nel circuito	Check the feeding pump
	Leaking	Check the valve
The signal swith is always on	Sensor Broke	Change sensor
	The regulation is too much closed	Check the stroke
No signal from sensor	Wire broke	Change the cable
	Sensor Broke	Change the sensor
	Wire unscrew	Screw the cable wire
	Sensor holder unscrew	Screw the switch holder
Air bubble in the circuit	Air in the circuit	Switch off the tube, drain the fluid, mount on the valve and do some cycles

7 WARRANTY AND REPARATION

7.1 Reparation

All the reparation have to be done only by skilled personal.

8 DIMENSIONS DAV 600



SE NON SPECIFICATO: QUOTE IN MILLIMETRI FINITURA SUPERFICIE: TOLLERANZE: LINEARE: ANGOLARE:		FINITURA:		SBAVATURA E INTERRUZIONE DB BORDI NETTI		NON SCALARE IL DISEGNO		REVISIONE mercoledì 4 agosto 2010 14.30.1	
DISEGNATO		FIRMA		DATA		TITOLO: Pistola Volumetrica			
VERIFICATO									
APPROVATO									
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				PESO: 580g (Pesa)		SCALA: 1:2		FOGLIO 1 DI 1	