



# DOSATRON®

WATER POWERED DOSING TECHNOLOGY

# PHV system

## Venturi Hygiene Unit PHV

### SPECIFICATIONS

- Dosing rate at 2.5 bar: **0.85 - 24.5 %**  
color coded jets calibrated with water [1 : 115 - 1 : 4]
- Flow range\*:  
Flow while rinsing at 2.5 bar: 685 l/h  
Flow while dosing at 2.5 bar: 340 l/h
- Operating pressure: **0.5 - 4 bar** [7 - 70 PSI]
- Max. operating water temperature: **70° C** [160° F]
- Min. operating water temperature: **5° C** [41° F]

\*For operating unit with other fluids than water, please contact us

### A self-cleaning venturi proportioning technology

#### Dosing technique:

Venturi proportioner

#### Energy source:

Depression created by water flow

#### Package contents:

##### 1 complete PHV:

- 1 polypropylene self-cleaning Dosatron patented venturi on a polypropylene structured wall support ;
- 1 shut-off valve with bleed screw and sampling tap ;
- 1 double non-return valve ;
- 1 plastic bag containing 12 color coded jets ;
- 1 transparent suction tube 175 cm long [69"], ø 6 x 9 mm [1/4" id x 3/8" od] ;
- 1 10-m-hose [32.81 ft] ;
- 1 spray gun ;
- 1 stainless steel support for 2 5l drums or 1 10l drum ;
- 1 owner's manual

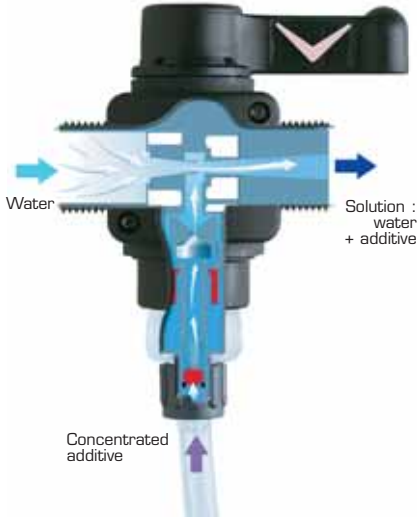


# PHV

## Operating principle

The venturi principle consists of momentarily increasing the speed of water passing through the system by restricting the passage (a dual cone, converging and diverging). A vacuum is created at the narrowest point, where the two cones meet, enabling the concentrated additive (detergent-disinfectant) to be sucked in and injected into the water.

The quality of dosage obtained depends on the suction capacity and invariability of the venturi.



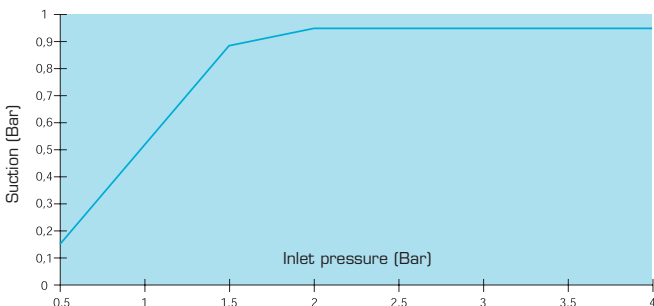
## Venturi dosage



The choice of venturi dosage is made by modifying the size of the suction orifice. This is accomplished by means of interchangeable colour coded jets with different sizes of orifice.

## PHV performances

### Suction diagram / Inlet pressure



## Specifications

<b>Principal applications</b>	
- Cleaning	
<b>General</b>	
- Dosing rate at 2.5 bar pressure	0.85 to 24.5 % [ 1 : 115 - 1 : 4 ]
- Inlet/outlet connections	1/2" M: BSP- ø 15 x 21 mm
- Self priming	yes
- Max. vertical or horizontal suction of the concentrate	depends on the viscosity and specific gravity of the concentrated additive
<b>Dosing technique</b>	
- Venturi	
<b>Functions</b>	
- 3 functions through 3 handle positions	Dosing (water + additive) Rinsing (water only) Maintenance of the venturi (self-cleaning)

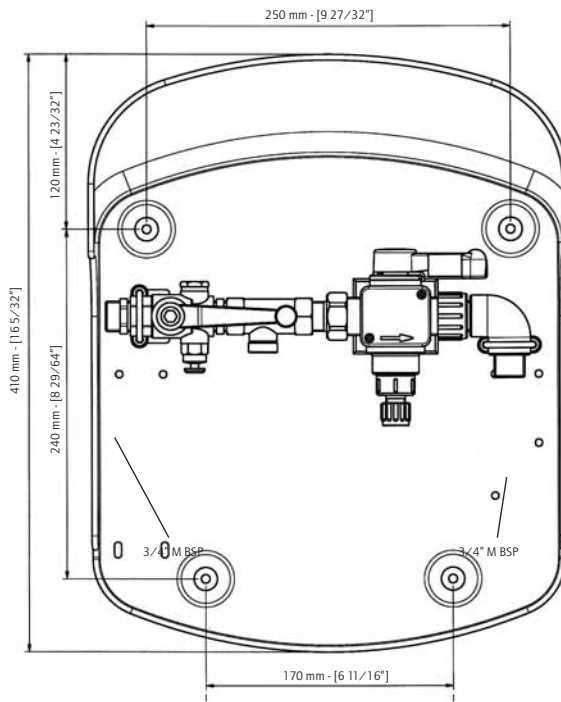
## Installation :

**Regulations:** Refer to local water regulations, prior to installing your PHV.

**Comments:** All venturi systems necessitate a study of the installation and the creation of constant operating conditions (flow, pressure, product viscosity) to obtain precision and reproducibility.

## Size :

- Package size :  
44 x 41 x 28 cm [17 5/16" x 16 1/8" x 11 1/16"]
- Package weight : ~ 6.5 kg [~ 14.3 US lbs]



## Dosatron, a complete range

Dosatron develops, manufactures and markets a range of hygiene dosing units that allow in-line injection and mixing of any liquid or soluble concentrate. The PHP and PDP systems are based on the proportional Dosatron technology, the PHV is based on the self-cleaning Dosatron venturi.

Each Dosatron unit is factory tested.

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