



VOGEL FRANCE SAS

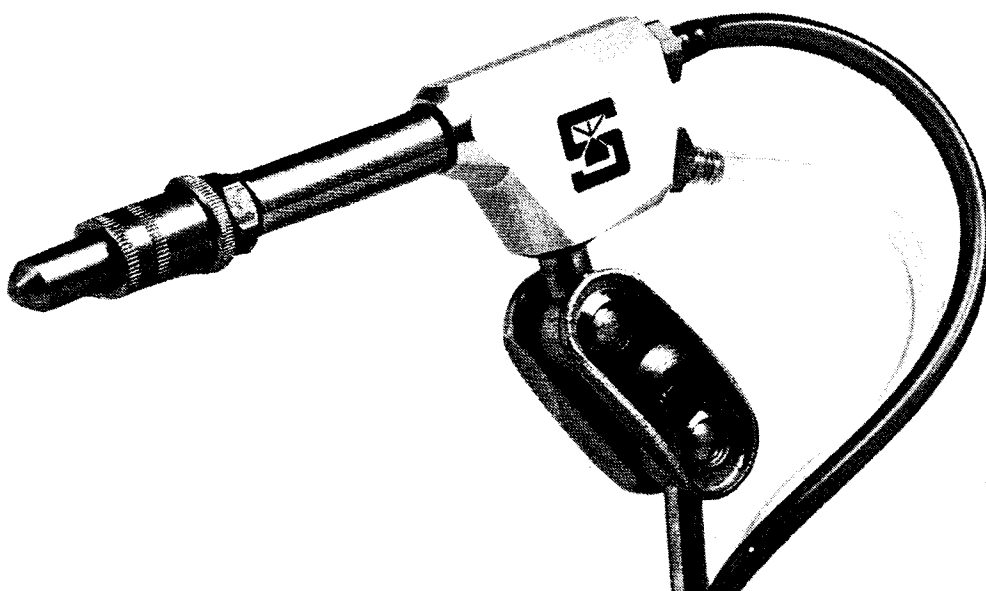
Rue Robert Amy - 49400 SAUMUR (FRANCE)

Postanschrift : B.P. 130 - F 49404 SAUMUR CEDEX

Tel. 33.(0)2.41.40.42.00

Fax. 33.(0)2.41.40.42.42

LOW PRESSURE SPRAYING PROCESS



The crafty spraying process



VOGEL
HYDRAULIK · PNEUMATIK

SYNCHROLUB GB-DT 01.89/02

VOGEL

HYDRAULIK · PNEUMATIK

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Laugfeld 21, 01968 Senftenberg Tel: 03573 14 80-0

Bereitschaft: 0160 718 15 82 E-Mail: senftenberg@vogel-gruppe.de

Niederlassung Dresden

Niedersedlitzer Str. 75 . 01257 Dresden Tel:0351 79 57 178

Bereitschaft: 0160 71 81 584 E-Mail: dresden@vogel-gruppe.de

Niederlassung Frankfurt/Oder

Wildbahn 8, 15236 Frankfurt/Oder Tel: 0335 52 15 081

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Niederlassung Genshagen & Rohrbiegezentrum

Seestr. 20, 14974 Genshagen Tel: 03378 87 90 67

Bereitschaft: 0171 22 65 930 E-Mail: genshagen@vogel-gruppe.de

Vertriebsgebiet Leipzig

Tel.: +49 160 7181581 . E-Mail: leipzig@vogel-gruppe.de

Niederlassung Schöneiche

August-Borsig-Ring 15, 15566 Schöneiche Tel: 030 64 93 581

Bereitschaft: 0160 71 81 590 E-Mail: schoeneiche@vogel-gruppe.de

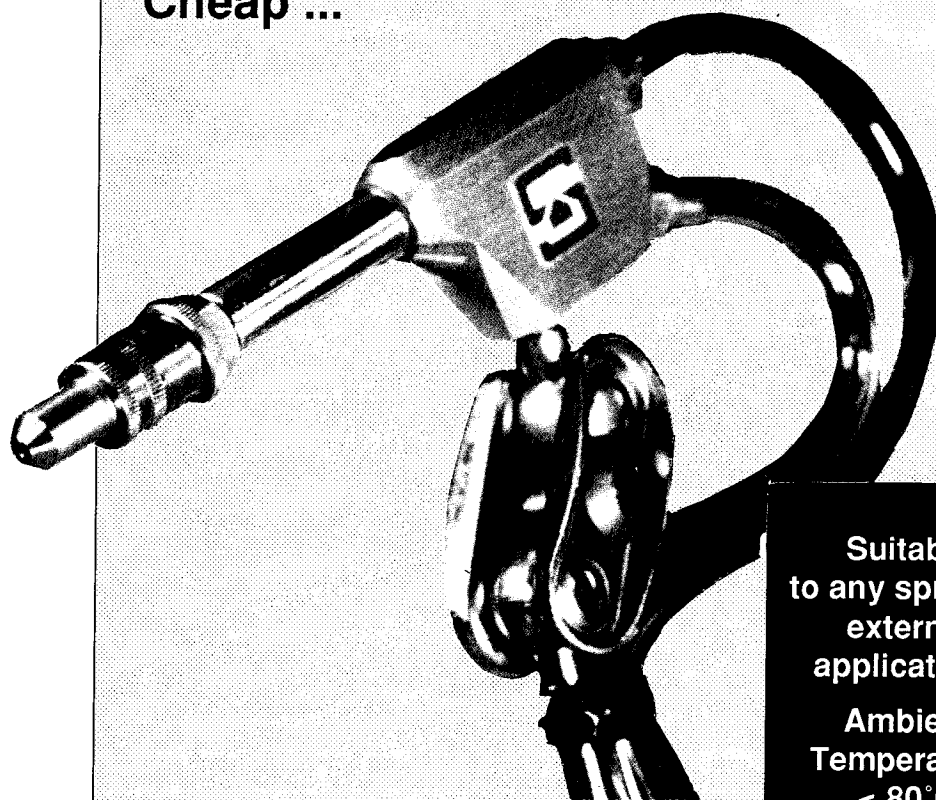
Industrie-Hydraulik Vogel & Partner GmbH .
Laugfeld 21 . 01968 Senftenberg, Tel.: 03573 1480-0
info@vogel-gruppe.de . www.vogel-gruppe.de



SY.PSP

Spray valve

Multi-purpose...
Cheap ...



Suitable
to any spraying
external
applications

Ambient
Temperature
< 80 °C

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Wide range of adjustable outputs :

- From 1 to 90 cm³/min (*cf. technical features*)

Various kinds of mounting :

- Swivel fixing on a sphere.
- Rigidly mounted with a screw.

Various nozzle lengths :

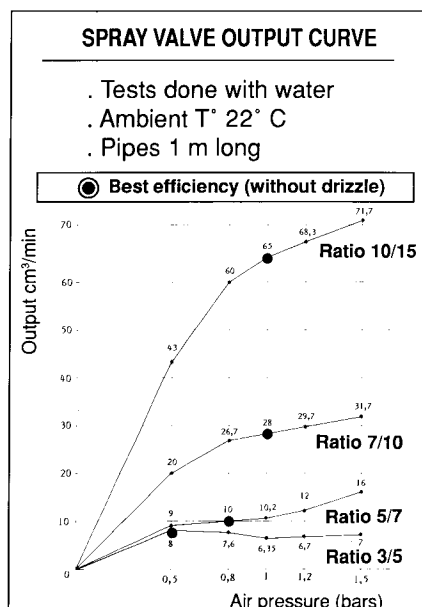
- Standard lengths 50 - 85 - 110 and 135 mm
- (*For any different length, please refer to us*).

No self draining :

- Every SY.PSP spray valve is fitted out with a built-in non return valve.

SY.PSP Spray valve

Tecnical features



. **Output** : Micrometric hand adjustable from 1 to 90 cm³/min (depending on the nozzles ratio).

. **Nozzles ratio** : 3/5 - 5/7 - 7/10 - 10/15

ex: SY.PSP ratio 5/7 = Internal nozzle 0,5 mm dia

Nozzle 0,7 mm dia

Nota : The nozzle/Internal nozzle ratio gives the greatest output of each spray valve. It is determined from the bore diameter of the internal nozzle (lowest number) and this one of the external nozzle (Venturi Law).

. Spraying angle : 18 - 20°

. **Liquids to be spraid** : Viscosity under 10° Engler at 20°C.

. **Compressed air** : Adjustable from 0,3 to 2 bar (The air should be filtered before using).

. Connections for Vinyl tube 3 X 5 mm dia.

. **Standard lengths** (dimension x) : 50 - 85 - 110 and 135 mm (further lengths optional)

. Nozzle and nozzle cap made of nicked brass.

. Tubes connections and internal nozzle made of brass.

. Body made of reinforced polyester resin.

. Standard seals in Perbunan (Viton seals optional).

. **Built-in nonreturn valve.**

. Ambient temperature : 80°C maxi.

. **Assembly** :

- Swivel fixing on a sphere 14 mm dia.

(Mounting on a steerable modular arm).

- Rigidly fixed with a screw type H, M 6-16.

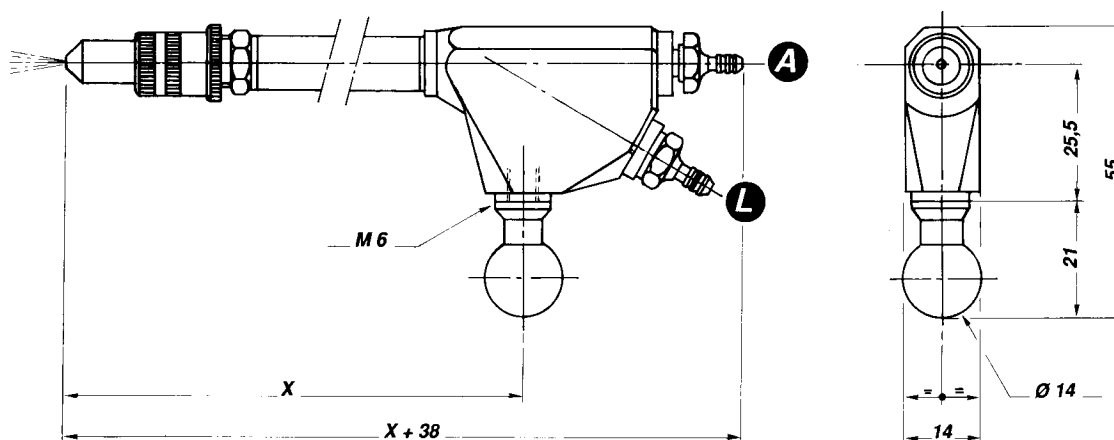
(Every spray valve is delivered with both possible fixing modes).

Dimensions

X = 50 - 85 - 110 - 135

A Air inlet

L Liquid inlet



To order

Spray valve

SY.PSP

Nozzle length (Dimension X)

50

85

110

135

Seals

Standard seals
made of Perbunan

V Viton seals optional

Ratio Nozzle/internal nozzle

3/5 5/7 7/10 10/15

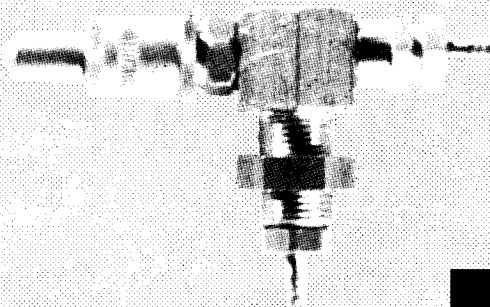
35

57

710

1015

SY.R Spray valve



Take care !
This spray valve model will soon be no more produced. For any new application, please use the SY.RDB spray valve

Wide range of adjustable outputs :

- From 1 to 90 cm³/min (*cf. technical features*)

Body made of brass. Adapted to equipments working in severe conditions (high T°, splinters, chips).

Various kinds of mounting :

- Rigidly fixed under the spray valve's head with a nut M 10 x 1
- Rigidly fixed on electrovalve 1/8 G dia (*please consult us*)

Various nozzle lengths :

- Standard lengths 43 - 75 - 110 and 125 mm
- (*For any different length, please consult us*).

No self draining :

- Every SY.R spray valve can be fitted out with a nonreturn valve Ref. SY.6300, except the model G (*straight connected on the electrovalve mounted*).

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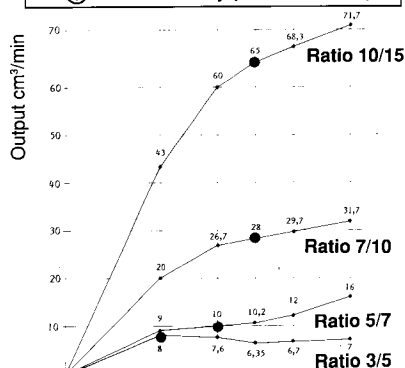
SY.R Spray valve

Tecnical features

SPRAY VALVE OUTPUT CURVE

- Tests done with water
- Ambient T° 22° C
- Pipes 1 m long

● Best efficiency (without drizzle)



. **Output** : Micrometric hand adjustable from 1 to 90 cm³/min (depending on the nozzles ratio).

. **Nozzles ratio** : 3/5 - 5/7 - 7/10 - 10/15

ex: SY.R ratio 5/7 = Internal nozzle 0,5 mm dia

Nozzle 0,7 mm dia

Nota : The nozzle/Internal nozzle ratio gives the greatest output of each spray valve. It is determined from the bore diameter of the internal nozzle (lowest number) and this one of the external nozzle (Venturi Law).

. Spraying angle : 18 - 20°

. **Liquids to be spraid** : Viscosity under 10° Engler at 20°C.

. **Compressed air** : Adjustable from 0,3 to 2 bar (The air should be filtered before using).

. Connections for Vinyl tube 3 X 5 mm dia.

. **Standard lengths** (dimension x) : 43 - 75 - 110 and 125 mm (further lengths optional)

. Nozzle and nozzle cap made of nicked brass.

. Tubes connections and internal nozzle made of brass.

. Body made of brass. Agents inflow at 90° versus the body M 12 x 1.

. Standard seals in Perbunan (Viton seals optional).

. **The nonreturn valve** is not included. It must be apart ordered (Ref. SY.6300). With the model fixed straight connected on the electrovalve, you don't need it.

. Ambient temperature : under 80°C (Perbunan seals) or under 200°C (Viton seals).

. **Assembly** :

- Rigidly fixed under head with a nut M 10 x 1 or,

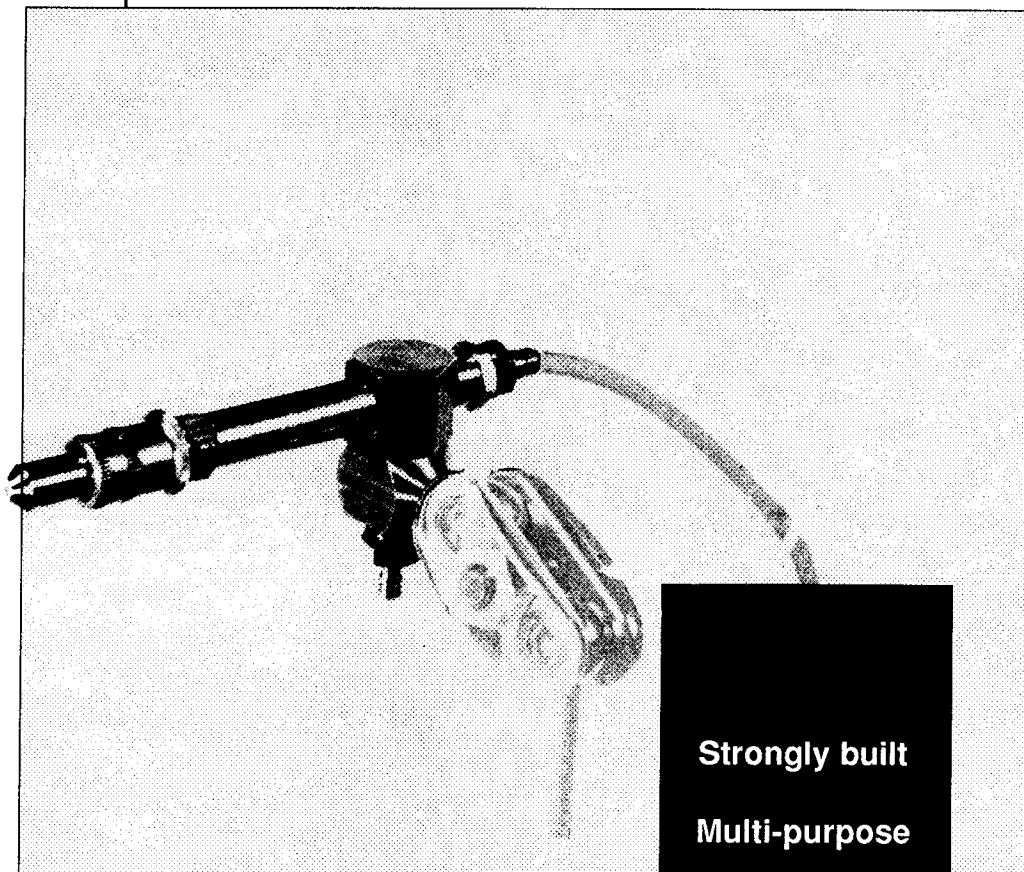
- Rigidly fixed on electrovalve 1/8 G dia (please consult us).

Dimensions

H.17

SY.RDB

Spray valve



Strongly built
Multi-purpose

Wide range of adjustable outputs :

- From 1 to 90 cm³/min (*cf. technical features*)

Body made of brass. Adapted to equipments working in severe conditions (high T°, splinters, chips).

Various kinds of mounting :

- Swivel fixing on a sphere.
- Rigidly fixed under head with a nut M 12 x 1

Various nozzle lengths :

- Standard lengths 43 - 75 - 110 and 125 mm

No self draining :

- Every SY.RDB spray valve is fitted out with a built-in nonreturn valve.

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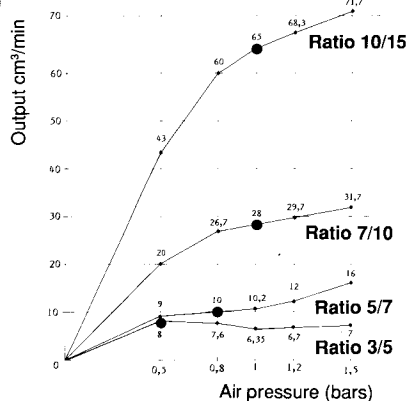
SY.RDB Spray valve

Tecnical features

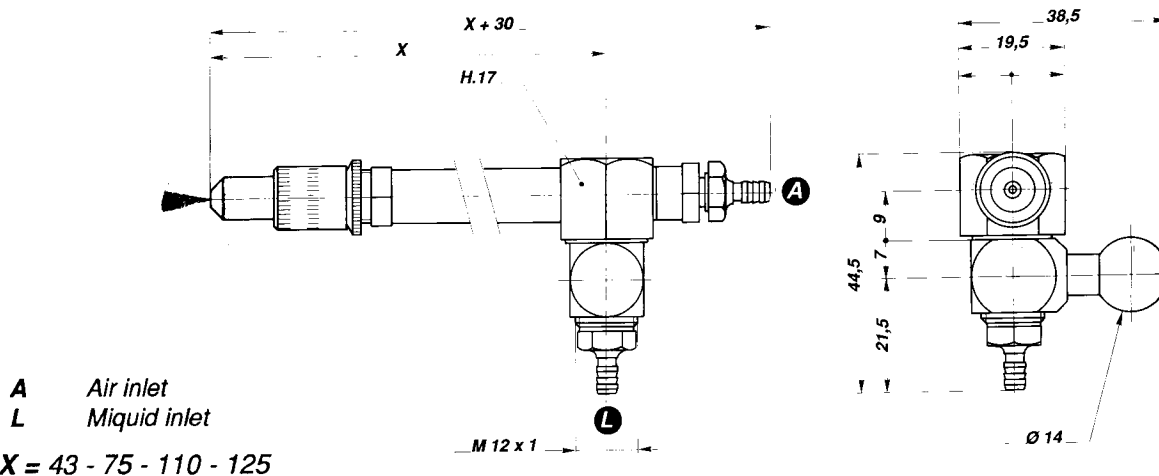
SPRAY VALVE OUTPUT CURVE

- Tests done with water
- Ambient T° 22° C
- Pipes 1 m long

● Best efficiency (without drizzle)



Dimensions



To order

Spray valve SY.RDB

Nozzle length (dimension X)

43 75 110 125

Seals

Standard seals
made of Perbunan
V Viton seals optional

Ratio Nozzle/internal nozzle

3/5 5/7 7/10 10/15

35 57 710 1015

. **Output** : Micrometric hand adjustable from 1 to 90 cm³/min (depending on the nozzles ratio).

. **Nozzles ratio** : 3/5 - 5/7 - 7/10 - 10/15

ex: SY.RDB ratio 5/7 = Internal nozzle 0,5 mm dia
Nozzle 0,7 mm dia

Nota : The nozzle/Internal nozzle ratio gives the greatest output of each spray valve. It is determined from the bore diameter of the internal nozzle (lowest number) and this one of the external nozzle (Venturi Law).

. Spraying angle : 18 - 20°

. **Liquids to be spraid** : Viscosity under 10° Engler at 20°C.

. **Compressed air** : Adjustable from 0,3 to 2 bar (The air should be filtered before using).

. Connections for Vinyl tube 3 X 5 mm dia.

. **Standard lengths** (dimension x) : 43 - 75 - 110 and 125 mm (further lengths optional)

. Nozzle and nozzle cap made of nickered brass.

. Tubes connections and internal nozzle made of brass.

. Body made of brass. Agents inflow at 90° versus the body M 12 x 1.

. Standard seals in Perbunan (Viton seals optional).

. **The nonreturn valve** is not included. It must be apart ordered (Ref. SY.6300). With the model fixed straight connected on the electrovalve, you don't need it.

. Ambient temperature : under 80°C (Perbunan seals) or under 200°C (Viton seals).

Assembly :

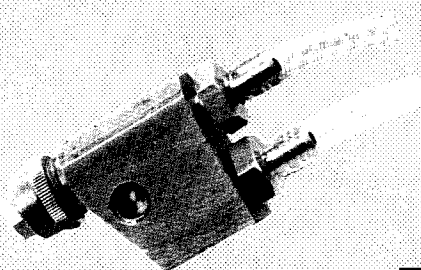
- Swivel fixing on a sphere 14 mm dia.

(Mounting on a steerable modular arm).

- Rigidly fixed under head with a nut type M 12 x 1 (delivered with)

SY.PSM

Spray valve



**MINISPRAY
VALVE**

SWIVEL FIXING

Wide range of adjustable outputs :

- From 1 to 60 cm³/min (*cf. technical features*)

Body made of brass. Adapted to equipments working in severe conditions (high T°, splinters, chips).

Various kinds of mounting :

- Swivel fixing on a sphere.
- Rigidly fixed with a side screw M 6.

No self draining :

- These SY.PSM spray valves can be fitted out with a valve - or not («C» option).

Compact

- This is the smallest model in the Synchrolub programm.

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SY.PSM Spray valve

Tecnical features

. **Output** : Micrometric adjustable output from 1 to 60 cm³/min with a wrench (*depending on the nozzles ratio*).

. Nozzles ratio : 4/6 - 4/10 - 7/10 - 10/15

ex: SY.PSM ratio 4/6 = Internal nozzle 0,4 mm dia

Nozzle 0,6 mm dia

Nota : The nozzle/internal nozzle ratio gives the greatest output of each spray valve. It is determined from the bore diameter of the internal nozzle (lowest number) and this one of the external nozzle (Venturi Law).

. Spraying angle : 18 - 20°

. **Agents to be spraid** : Viscosity under 10° Engler at 20°C.

. **Compressed air** : Adjustable from 0,3 to 2 bar.

(*The air should be filtered before using*).

. Connections for Vinyl tube 3 X 5 mm dia.

. Nozzle and nozzle cap made of nickered brass.

. Tubes connections and internal nozzle made of brass.

. Body made of brass.

. Standard seals in Perbunan (*Viton seals optional*).

. **Built-in nonreturn valve** : only with the model «C».

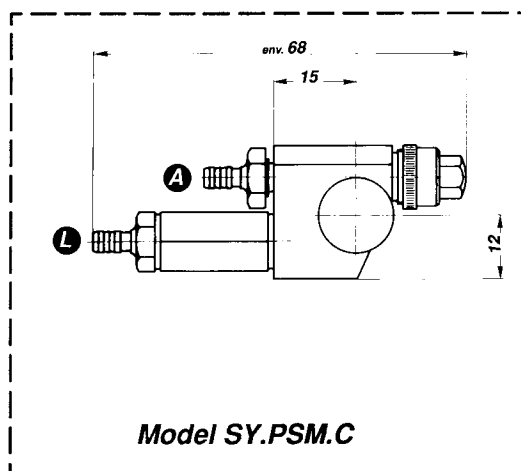
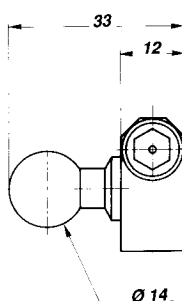
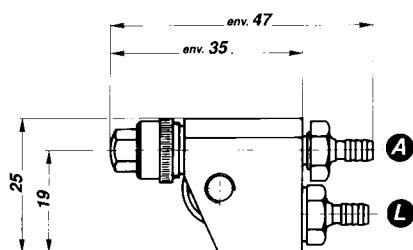
. Ambient temperature under 80°C with Perbunan seals or under 200°C with Viton seals.

. **Assembly** : - Swivel fixing on a sphere 14 mm dia.

(*Mounting on a steerable modular arm*).

- Rigidly fixed on the side with a screw M 6 (*not delivered with*).

Dimensions



A Air inlet
L Liquid inlet

To order

Spray valve SY.PSM

Ratio Nozzle/internal nozzle

4/6 4/10 7/10 10/15

46 410 710 1015

Adjustment wrench SY.3900

Seals

Standard seals
made of Perbunan

V

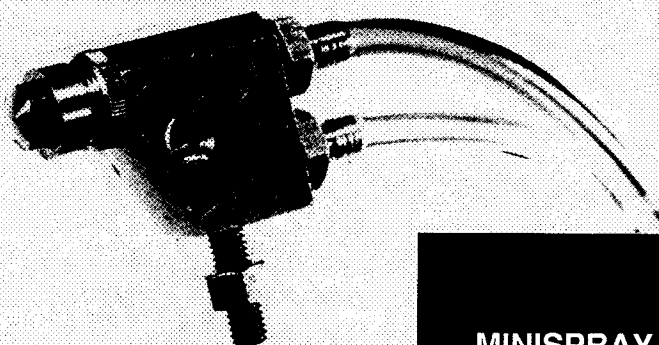
Viton seals optional

. C

Built-in nonreturn valve

Without nonreturn valve

SY.PSMR Spray valve



**MINISPRAY
VALVE
BOLT MOUNTING**

VOGEL®

VOGEL FRANCE SAS

Wide range of adjustable outputs :

- From 1 to 60 cm³/min (*cf. technical features*)

Body made of brass. Adapted to equipments working in severe conditions (high T°, splinters, chips).

Various kinds of mounting :

- Rigidly fixed with a screw M 5 on the bottom.
- Rigidly fixed with a screw M 6 on the side.

No self draining :

- These **SY.PSMR** spray valves can be fitted out with a valve - or not («C» option).

Compact

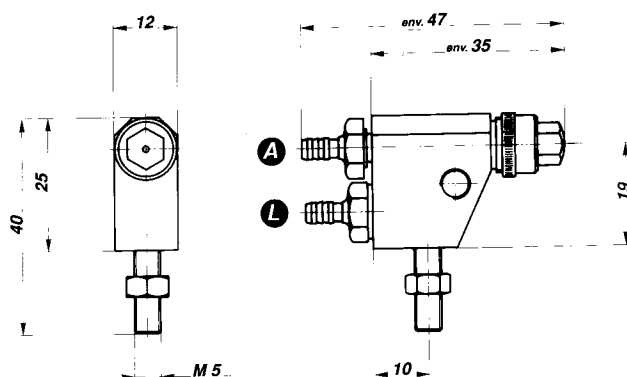
- This is the smallest model in the Synchrolub programm.

SY.PSMR Spray valve

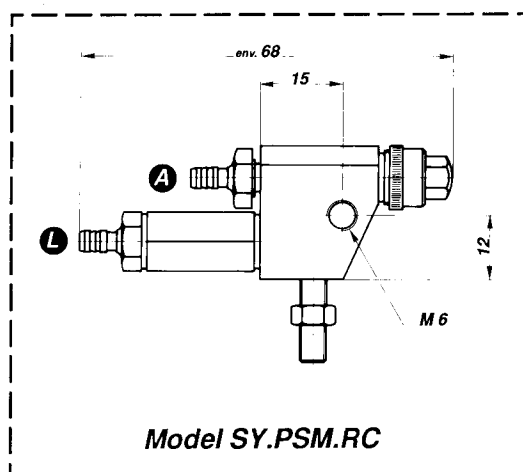
Tecnical features

- . **Output** : Micrometric adjustable output from 1 to 60 cm³/min with a wrench (*depending on the nozzles ratio*).
- . Nozzles ratio : 4/6 - 4/10 - 7/10 - 10/15
- ex: SY.PSMR ratio 4/6 = Internal nozzle 0,4 mm dia
Nozzle 0,6 mm dia
- Nota : The nozzle/Internal nozzle ratio gives the greatest output of each spray valve. It is determined from the bore diameter of the internal nozzle (lowest number) and this one of the external nozzle (Venturi Law).*
- . Spraying angle : 18 - 20°
- . **Agents to be spraid** : Viscosity under 10° Engler at 20°C.
- . **Compressed air** : Adjustable from 0,3 to 2 bar.
(*The air should be filtered before using*).
- . Connections for Vinyl tube 3 X 5 mm dia.
- . Nozzle and nozzle cap made of nickeled brass.
- . Tubes connections and internal nozzle made of brass.
- . Body made of brass.
- . Standard seals in Perbunan (*Viton seals optional*).
- . **Built-in nonreturn valve** : only with the model «C».
- . Ambient temperature under 80°C with Perbunan seals or under 200°C with Viton seals.
- . **Assembly** : - Rigidly fixed on the bottom with a screw M 5
- Rigidly fixed on the side with a screw M 6 (*not delivered with*).

Dimensions



A Air inlet
L Liquid inlet



Model SY.PSM.RC

To order

Spray valve SY.PSMR

Ratio Nozzle/internal nozzle

4/6 4/10 7/10 10/15

46 410 710 1015

Adjustment wrench SY.3900

Seals

Standard seals
made of Perbunan

V

Viton seals optional

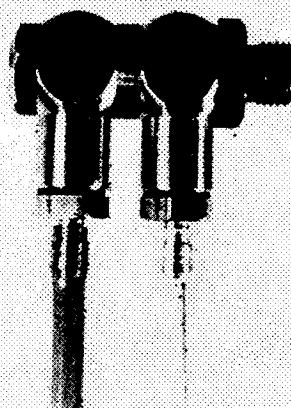
. C

Built-in nonreturn valve

Without nonreturn valve

SY.MJ

Spray valve



MINIJET

Unadjustable
outputs
Compact model

VOGEL®

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Predetermined outputs : The output is determined by mounting one of 4 interchangeable cartridges. Compact dimensions. Unadjustable. It cannot be put out of order inadvertently.

Front mounted : M 10 x 1

Body of steel and banjo connection parts made of brass:

Very strongly built. Adapted to equipments working in severe conditions (high T°, splinters, chips).

Connections :

- Vinyl pipe 3 x 5 dia.
- Copper or Rilsan pipe 2 x 4 dia.

No self draining :

- These SY.MJ spray valves can be fitted out with a nonreturn valve (*cf. technical Features*).

SY.MJ Spray valve

Technical features

. Predetermined outputs through interchangeable cartridges.

. Nozzles ratio :

Cartridges :	4/6	5/7	7/10	10/15
Average outputs :	8	10	18	35

Output : cm³/min water at a pressure of 1 bar

. Spraying angle : 18 - 20°

. Agents to be spraid : Viscosity under 10° Engler at 20°C.

. Compressed air : Adjustable from 0,3 to 2 bar.

(The air should be filtered before using).

. Connections :

- for Vinyl tube 3 X 5 mm dia.

- Copper tube : model «C»

2,5 x 4 dia. with double cone

. Body made of treated steel, banjo connection parts and cartridges made of brass.

. Standard seals in Perbunan (Viton seals optional).

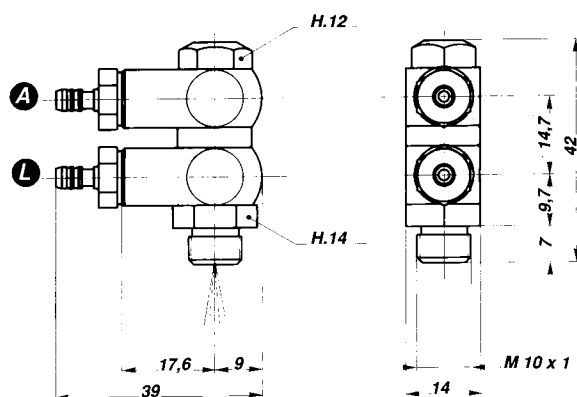
. The nonreturn valve is non built-in. It must be apart order (ref. SY.6300 for vinyl pipe or ref. SY.* for copper pipe).

. Ambient temperature under 80°C with Perbunan seals or under 200°C with Viton seals.

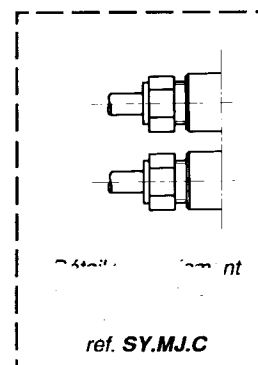
. Assembly : - Front Rigidly fixed M 10 x 1.

* Under development

Dimensions



A Air inlet
L Liquid inlet



To order

Spray valve SY.MJ

Copperpipe
Vinylpipe

. C
[]

Seals

Standard seals
made of Perbunan
Viton seals optional

[]
V

Cartridges

4/6 5/7 7/10 10/15

460 570 710 1015

Nonreturn valve SY.3900 or (*)

(*) Under development

SY.MAX Spray valve

Technical features

Output: cm ³ /min			
Pressure in bar	Cartridges		
	17/10	25/14	41/25
1	90	150	-
2	114	222	232
3	114	306	340
4	-	-	450

Output : cm³/min water at a pressure of 1 bar

Dimensions

- . Set outputs determined through interchangeable spraying cartridges.
- . Nozzles ratio :

Cartridges :	17/10	25/14	30/18	41/25
Average outputs cm ³ /min :	90 to 114	150 to 306	*	232 to 450

Output : cm³/min water at a pressure of 1 bar

. Spraying angle : 18 - 20°

. Agents to be spraid : Viscosity under 10° Engler at 20°C.

. Compressed air : Adjustable from 0,3 to 2 bar.

(The air should be filtered before using).

. Connections :

Rilsan or copper pipes connected by double cone. Two modes : either 2 pipes of same dia. (4 x 6 : Ref. D - 5 x 7 : Ref. B - 6 x 8 : Ref. C) or 2 pipes of different dia. (for example : DC : the first letter always indicate the liquid inlet).

. Body made of treated steel, banjo connection parts and cartridges made of brass.

. Standard seals in Perbunan (Viton seals optional).

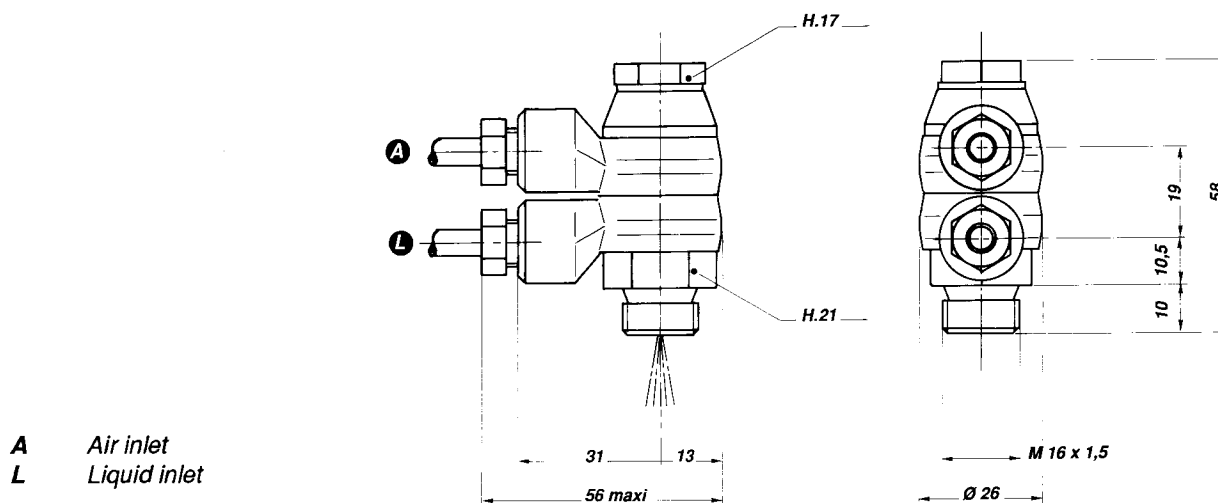
. The nonreturn valve is non built-in. It must be apart ordered (Ref. SY.*). Nota : This nonreturn valve must be mounted on the agents pipe and not straight connected on the spray valve.

. Ambient temperature under 80°C with Perbunan seals or under 200°C with Viton seals.

. Assembly :

- Front Rigidly fixed M 16 x 1,5.

* Under development



To order

Spray valve SY.MAX

Connections

or

B	C	D
DC	BD	BC

Nonreturn valve SY (*)

Seals

Standard seals
made of Perbunan
Viton seals optional

Cartridges

17/10	25/14	30/18	41/25
1710	2514	3018	4125

Spraying Control Box

In most spray applications, the best quality of an installation consists in its automatic operation.

This opinion is the result of 40 years experience and the reason why we designed and manufactured a complete range of standard and special control boxes. Our object is to deliver complete installations which correspond to special applications and bring the customer the best result through the best operation.

The customer often wants to build himself the equipment's control system and he often has problems. Why ?

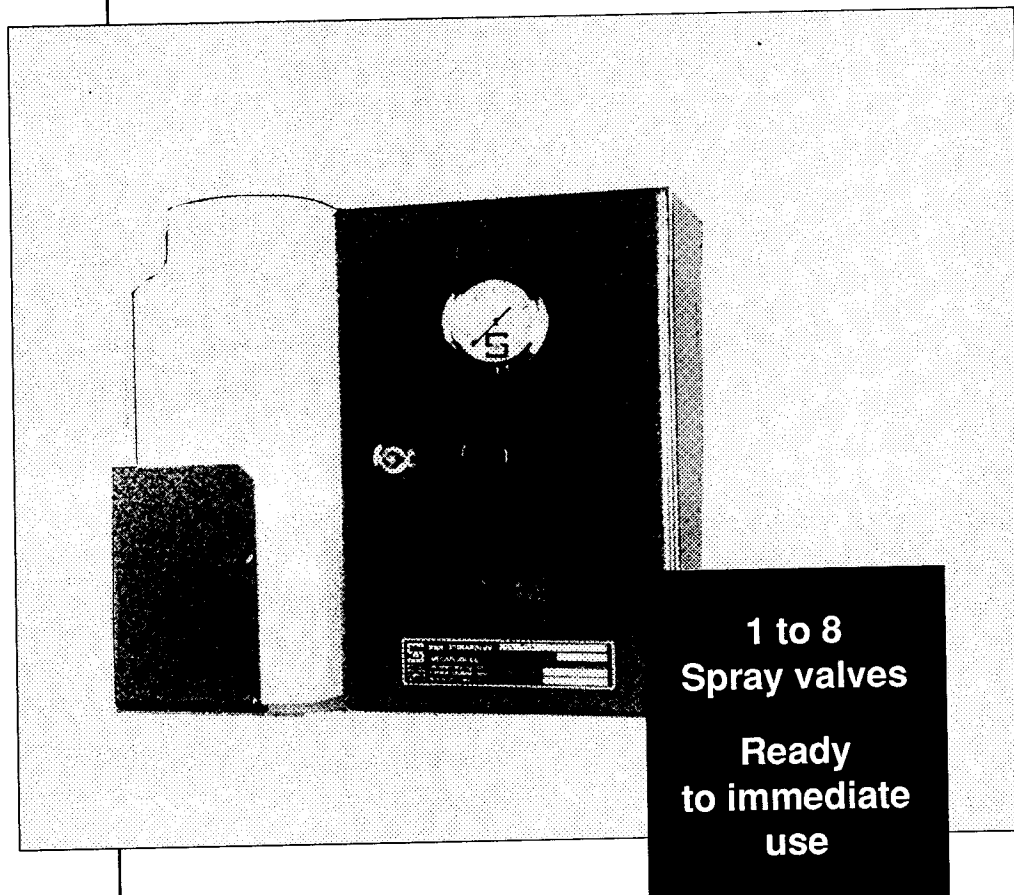
Because of the high quality and best selection of the parts included in our control boxes. Never forget that the tubes towards the spray valves always work under Venturi Law. Not every current item is suitable, and so is it for the other parts too. A technical error could damage the whole installation.

We will give you the benefit of our experience in various fields such like :

- Food- Motorcar- Printing- Cosmetics- Toys Industry - Metallurgy - Foundry - Conveyors - Machining centers.

The following pages will help you in choosing the best suitable equipment. If not, our Design Department is at your disposal to define YOUR OWN SPRAYING CONTROL BOX.

Spraying control box SY.CP50



Standard control box

- Adapted for an installation with 1 to 8 spray valves. *Over 8 spray valves please consult us.*

Ready to be installed

- You have just to supply it with electrical and pneumatic power and to connect the spray valves together with the liquid reservoir.

Automation

- This control box is delivered with a synchronizing cable. It does not control any spraying cycle but, being connected to any contact (end of stroke, cam or adjustable automatic lathe), it will control the spraying time.

Self operating time

- Every control box in this SY.CP50 range is fitted out with a 5 litre reservoir. *Minimum level device optional.*

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Spraying control box SY.CP50

Tecnical features

On the front side :

- 1 manometer (graduation from 0 to 4 bar)
- 1 pressure regulator
- 1 button «Start-Stop» - 2 presilvered change over contacts with light signal.
- 1 button «Priming» - 2 presilvered change over contacts with light signal.
- 1 place for the evtl. light signal «Minimum level switch»

On the innerbackside :

- 1 solenoid valve «Liquid» 2/2 ways 2,5 mm
- 1 solenoid valve «Air» 3/2 ways 2,5 mm
- 1 fixing part
- 1 electrical connection plug
- 1 fuse holder (5 x 20 - 1 A)

On the left hand side :

- 1 5 liter translucent plastic tank with suction filter. Can be delivered with the optional «minimum level switch».

On the bottom :

- 1 electrical connection cable - 2,5 m long - 2 conducting wires + Earth
- 1 synchronizing cable - 2,5 m long - 2 conducting wires + Earth
- 1 pneumatic cable with connection for pipe innerdia. 6
- 1 «Air» outlet
- 1 «Liquid» outlet
- Rilsan pipe 4 x 6 dia. (2 x 3 m) with connection parts and double cone.

All these components are delivered as a kit ready to be installed.

Electrical power 110/220 V altern. - 24/48 V altern. or continuous.

Electrical demand : 12 VA

Nota : The option «Minimum level switch» consists of the level device, the lamp «Defect» and the relay «Defect» (cf. page 27).

Dimensions

Drawing with overall dimensions and fixing modes page 27.

To order

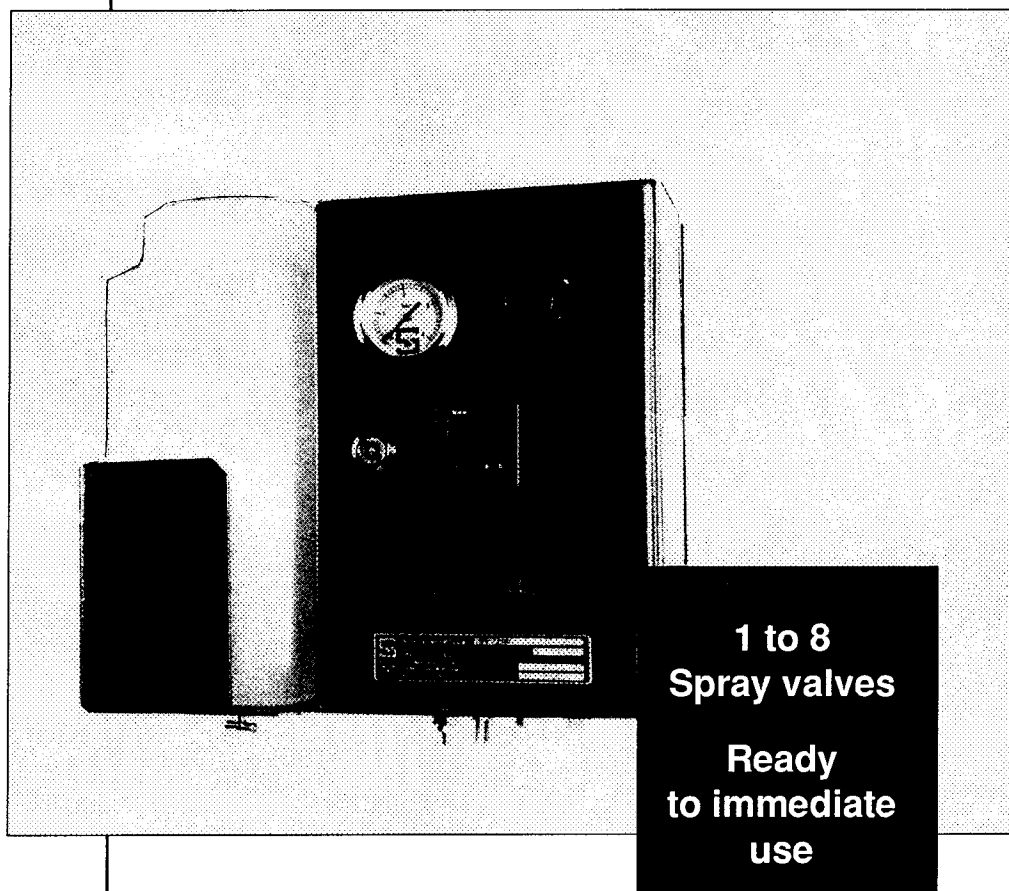
Spraying control box SY.CP50



Voltage ref.

01	110 V - 50/60 Hz
02	220 V - 50 Hz
03	24 V - CC
04	24 V - 50 Hz
05	48 V - CC
06	48 V - 50 Hz

Spraying control box SY.CP50T



VOGEL®

VOGEL FRANCE SAS

Standard control box

- Adapted for an installation with 1 to 8 spray valves. *Over 8 spray valves please consult us.* Spraying time automatic.

Ready to be installed

- You have just to supply it with electrical and pneumatic power and to connect the spray valves together with the liquid reservoir.

Automation

- This control box is delivered with a synchronizing cable and connected to a stroke end or a cam. Spraying time controlled through a delay timer with digital display adjustable from 0,1 sec. to 999 h.

Self operating time

- Every control box in this SY.CP50T range is fitted out with a 5 litre reservoir. *Minimum level device optional.*

Spraying control box SY.CP50T

Tecnical features

On the front side :

- 1 manometer (graduation from 0 to 4 bar)
- 1 pressure regulator
- 1 button «Start-Stop» - 2 presilvered change over contacts with light signal.
- 1 button «Priming» - 2 presilvered change over contacts with light signal.
- 1 delay timer with digital display, adjustable from 0,1 sec. to 999 h.
- 1 place for the evtl. light signal «Minimum level switch»

On the innerbackside :

- 1 solenoid valve «Liquid» 2/2 ways 2,5 mm
- 1 solenoid valve «Air» 3/2 ways 2,5 mm
- 1 fixing part
- 1 electrical connection plug
- 1 fuse holder (5 x 20 - 1 A)

On the left hand side :

- 1 5 liter translucent plastic tank with suction filter. Can be delivered with the optional «minimum level switch».

On the bottom :

- 1 electrical connection cable - 2,5 m long - 2 conducting wires + Earth
- 1 synchronizing cable - 2,5 m long - 2 conducting wires + Earth
- 1 pneumatic cable with connection for pipe innerdia. 6
- 1 «Air» outlet
- 1 «Liquid» outlet
- Rilsan pipe 4 x 6 dia. (2 x 3 m) with connection parts and double cone.

All these components are delivered as a kit ready to be installed.

Electrical power 110/220 V altern. - 24/48 V altern. or continuous.

Electrical demand : 12 VA

Nota : The option «Minimum level switch» consists of the level device, the lamp «Defect» and the relay «Defect» (cf. page 27).

Dimensions

Drawing with overall dimensions and fixing modes page 27.

To order

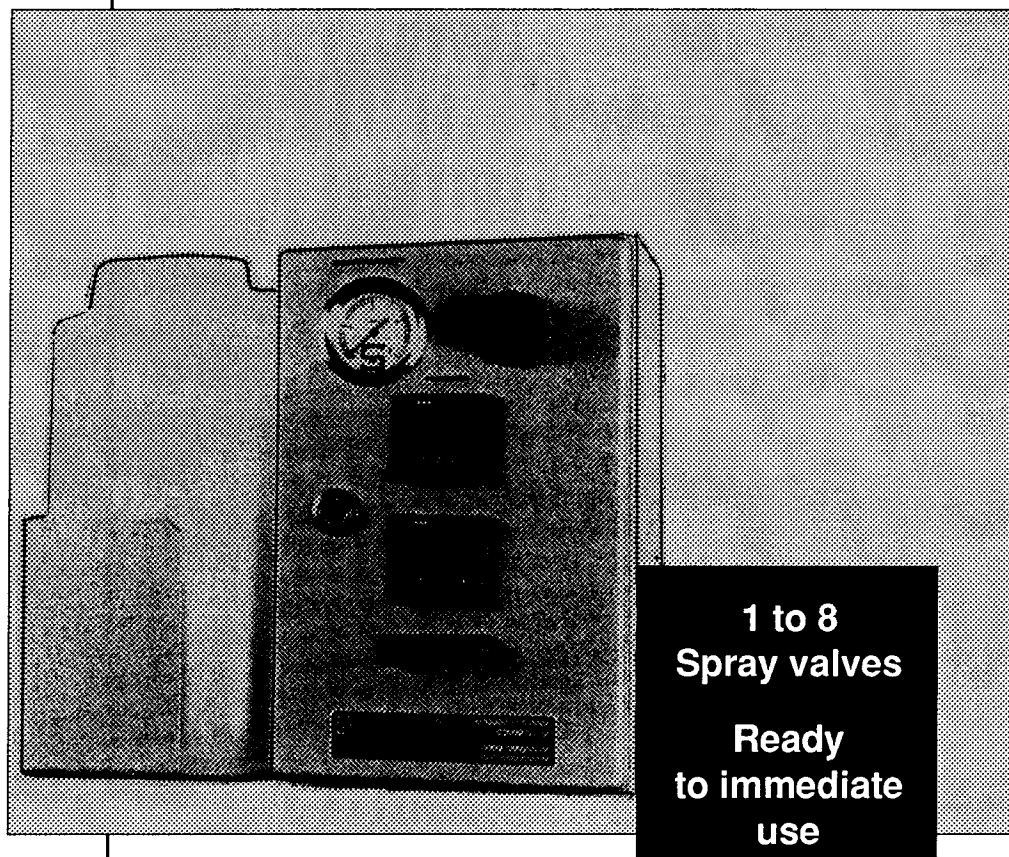
Spraying control box SY.CP50T



Voltage ref.

01	110 V - 50/60 Hz
02	220 V - 50 Hz
03	24 V - CC
04	24 V - 50 Hz
05	48 V - CC
06	48 V - 50 Hz

Spraying control box SY.CP50IT



**1 to 8
Spray valves**

**Ready
to immediate
use**

Fully automatic working :

Adapted for an installation with 1 to 8 spray valves. *Over 8 spray valves please consult us.* Fully automatic and self operating box.

Ready to be installed

- You have just to supply it with electrical and pneumatic power and to connect the spray valves together with the liquid reservoir.

Automation

- This control box is delivered with a synchronizing cable and controls the fully automatic operation from a contact on (stroke end or anywhatelse).

The spraying cycle is operated by a pulse counter (preselection on digital display). The spraying time by a delay timer adjustable from 0,1 sec. to 999 h.

These two devices placed on the control box frontside let the spraying be fully automatic and self operating.

Self operating time

- Every control box in this SY.CP50IT range is fitted out with a 5 litre reservoir. *Minimum level device optional.*

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Spraying control box SY.CP50IT

Tecnical features

On the front side :

- 1 manometer (graduation from 0 to 4 bar)
- 1 pressure regulator
- 1 button «Start-Stop» - 2 presilvered change over contacts with light signal.
- 1 button «Priming» - 2 presilvered change over contacts with light signal.
- 1 delay timer with digital display, adjustable from 0,1 sec. to 999 h.
- 1 pulse counter with digital display
- 1 place for the evtl. light signal «Minimum level switch»

On the innerbackside :

- 1 solenoid valve «Liquid» 2/2 ways 2,5 mm
- 1 solenoid valve «Air» 3/2 ways 2,5 mm
- 1 fixing part
- 1 electrical connection plug
- 1 fuse holder (5 x 20 - 1 A)

On the left hand side :

- 1 5 liter translucent plastic tank with suction filter. Can be delivered with the optional «minimum level switch».

On the bottom :

- 1 electrical connection cable - 2,5 m long - 2 conducting wires + Earth
- 1 synchronizing cable - 2,5 m long - 2 conducting wires + Earth
- 1 pneumatic cable with connection for pipe innerdia. 6
- 1 «Air» outlet
- 1 «Liquid» outlet
- Rilsan pipe 4 x 6 dia. (2 x 3 m) with connection parts and double cone.

All these components are delivered as a kit ready to be installed.
Electrical power 110/220 V altern. - 24/48 V altern. or continuous.
Electrical demand : 12 VA

Nota : The option «Minimum level switch» consists of the level device, the lamp «Defect» and the relay «Defect» (cf. page 27).

Dimensions

Drawing with overall dimensions and fixing modes page 27.

To order

Spraying control box SY.CP50IT

•



Voltage ref.

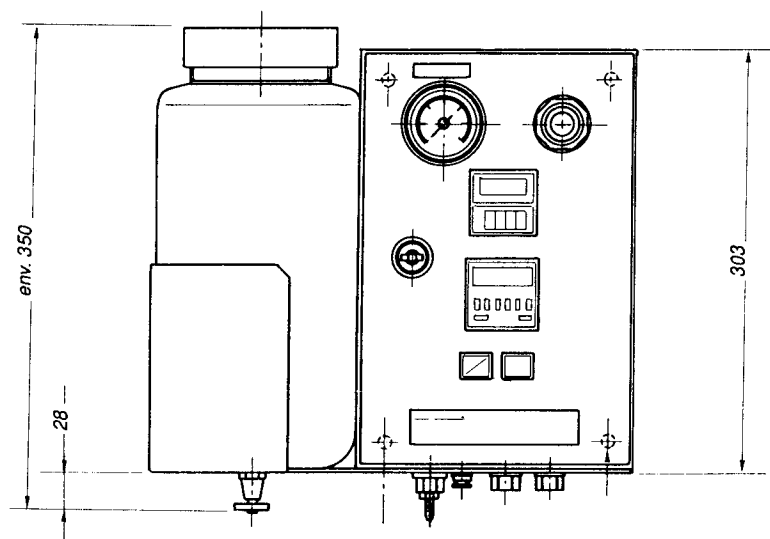
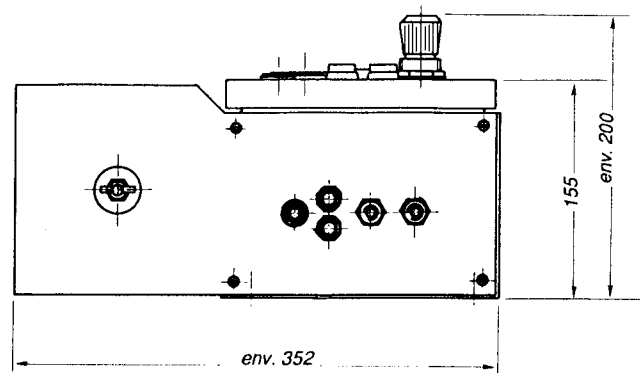
01	110 V - 50/60 Hz
02	220 V - 50 Hz
03	24 V - CC
04	24 V - 50 Hz
05	48 V - CC
06	48 V - 50 Hz

Spraying control boxes SY.CP50/CP50T/CP50IT

Dimensions

The dimensions and fixing modes of every switch box in the range SY.CP50 are the same. Only the front side is different depending on the optional devices.

Model on this page **SY.CP50IT**



4 fixing holes dia. 9 - Center distance of axes 260 x 160

To order

Option minimum level switch SY.J



Voltage ref.

01	110 V - 50/60 Hz
02	220 V - 50 Hz
03	24 V - CC
04	24 V - 50 Hz
05	48 V - CC
06	48 V - 50 Hz

Sleuable holders SY.F

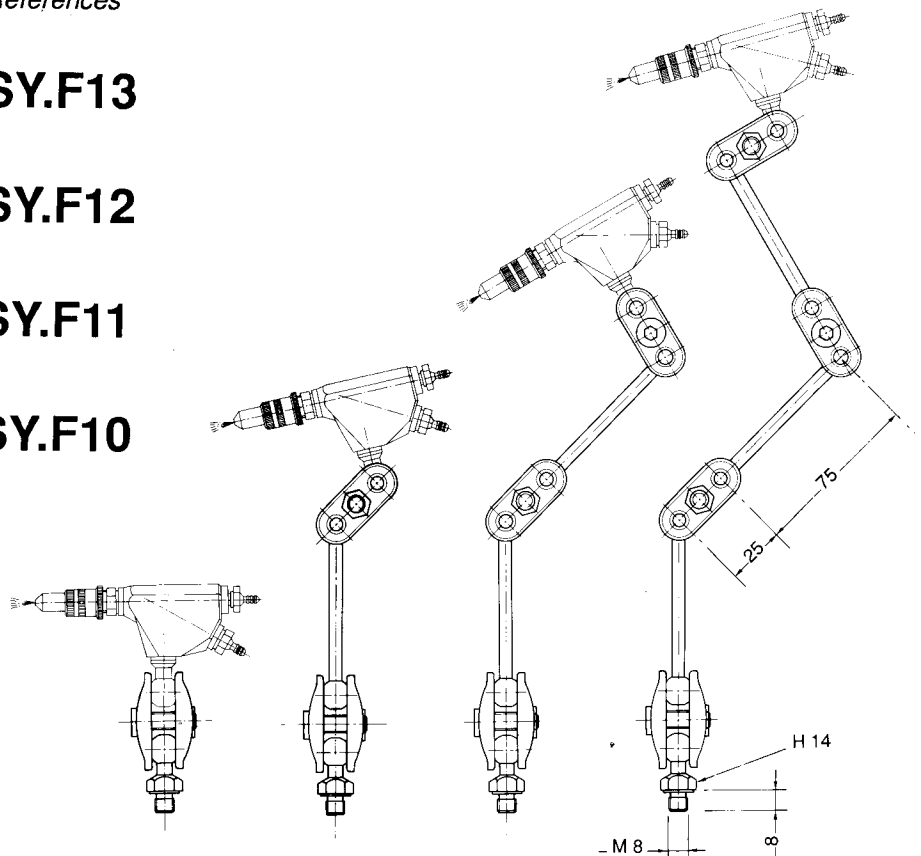
Références

SY.F13

SY.F12

SY.F11

SY.F10



Modular sleuable holders for spray-valves type SY.PSP/ RDB/PSM... mounted on ball dia. 14.

With these ball mounting devices, the spray-valves can be quickly installed at the exactly required place.

In many cases, they are mounted as an extension of a metallic tube (steel tube by ex.) in order to get some convenient swivel-part.

Description :

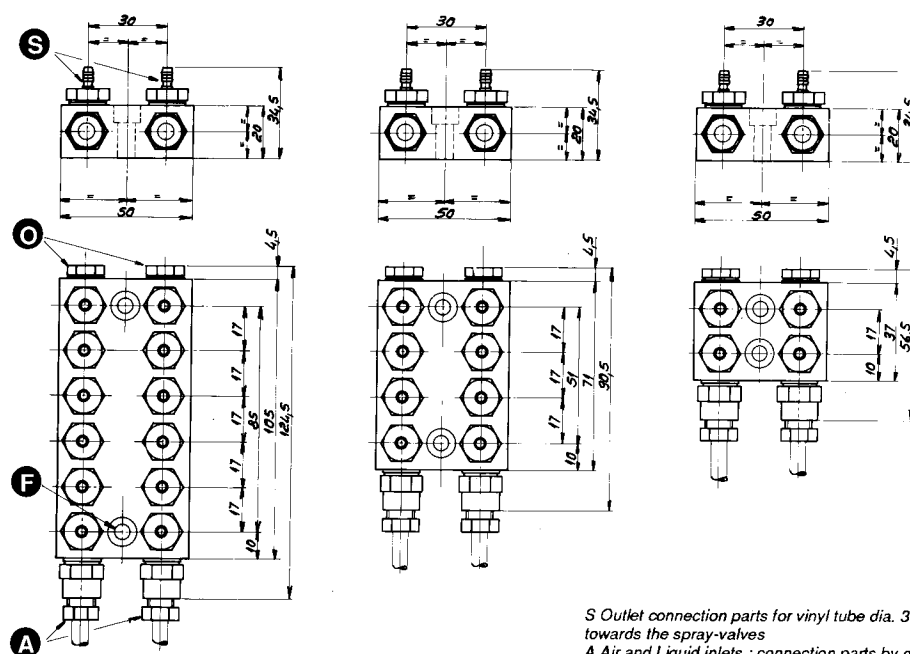
- Cadmium or nickel body. Treated screws.
- Mounting ball made of brass M 8.

All these fixing holders can be mounted on the magnetic base ref. SY.8034 (Standpower 40 kg).

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Air & Liquid Connection Blocks SY.ND



S Outlet connection parts for vinyl tube dia. 3 x 5
towards the spray-valves
A Air and Liquid inlets : connection parts by double
cone for tube external dia. 6
O Outlets G 1/8 with plugs
F 2 fixing holes dia. 5,5 for screw CHC, M5.
Counterboring dia. 10, Depth 6,5.

Function : They distribute the air and liquid impulses towards the spray-valves, operating or not. Their fixing close to the spray-valves lets the tubes out of the connection blocs be smaller.

2, 4 or 6 outlets towards the spray valves. Connection parts for vinyl tube dia. 3 x 5. 1 meter tube is delivered for each connection : transparent for the liquid tube and green for the air. 2, 4 or 6 plugs and seals delivered together with, in order to fill the unused outlets.

Fixing : by 2 screws CHC, M 5 (not delivered with).

Connections :

- Air and liquid inlets for tube dia 4 x 6 (connection parts and double cones delivered with).
- Outlets G 1/8 with movable plugs to connect further connections blocks or any more spray-valve.

Description : Body made of dural. Connection parts and plugs made of brass.

To order

Double connection block SY.ND .

Quantity of supplied spray valves

2

4

6

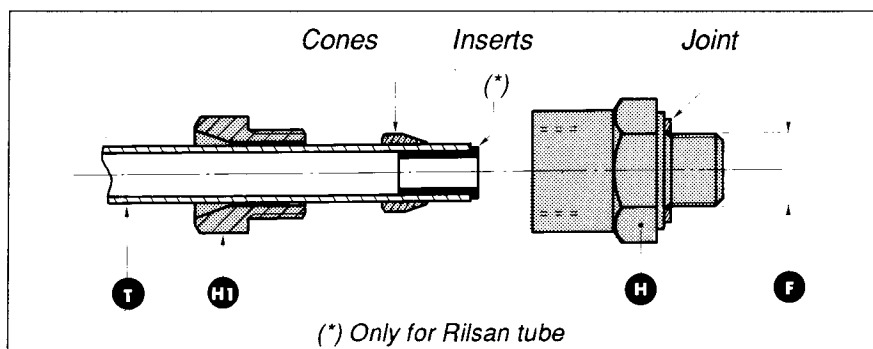
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Connections

Mounting connections

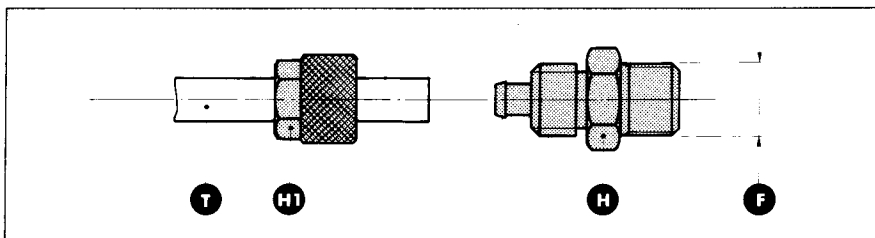
. Straight unions for copper or Rilsan tube



Ø T	F	H	H 1	Set's ref.
2,5 x 4	M 8 x 1	12	9	SY.8730.4
2,5 x 4	G 1/8 cyl.	12	9	SY.8731.4
2,5 x 4	M 10 x 1	12	9	SY.8732.4
2,5 x 4	G 1/4 cyl.	14	9	SY.8733.4
4 x 6	M 8 x 1	14	12	SY.8730.6
4 x 6	G 1/8 cyl.	14	12	SY.8731.6
4 x 6	M 10 x 1	17	12	SY.8732.6
4 x 6	G 1/4 cyl.	17	12	SY.8733.6
6 x 8	G 1/8 cyl.	17	14	SY.8731.8
6 x 8	M 10 x 1	17	14	SY.8732.8
6 x 8	G 1/4 cyl.	17	14	SY.8733.8

Each set is composed of : one male screw, one single cone, one insert, and one connection with boring for single cone. To get any further size, please consult us.

. Straight unions for vinyl or Rilsan tube



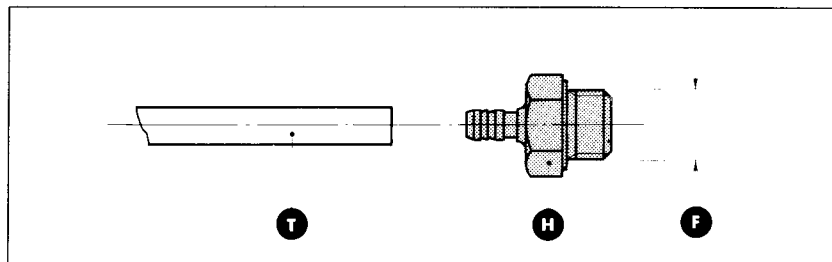
Ø T	F	H	H 1	Ref.
4 x 6	G 1/8 coniform	12	10	RI.628
4 x 6	G 1/4 coniform	14	12	RI.629

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Mounting connections

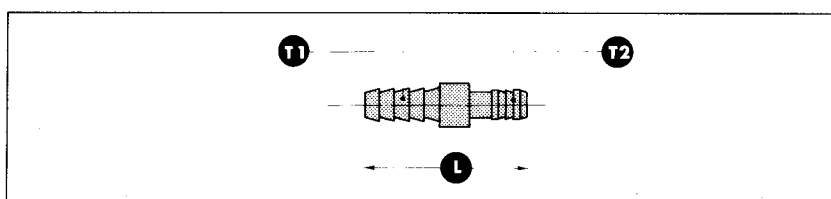
. Grooved sockets



T	Material	F	H	Ref.
Ø 3 x 5	vinyl	M 5	7	SY.8063
Ø 3 x 5	vinyl	G 1/8 cyl.	12	SY.3540
Ø 3 x 5	vinyl	G 1/4 coniform	14	SY.3590
Ø 6 inside		G 1/8 coniform	10	SY.8068
Ø 6 inside		G 1/4 coniform	14	SY.3591

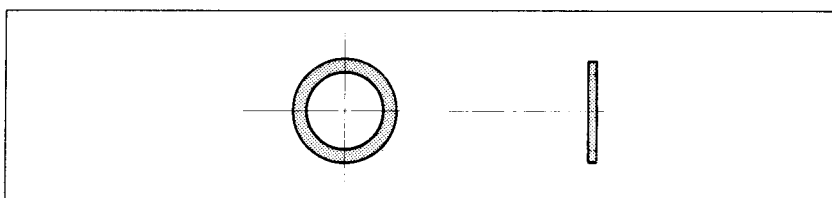
To get any further size, please consult us.

. Reduction



T 1	T 2	L	Ref.
Ø 4 x 6 Rilsan or vinyl	Ø 3 x 5 Vinyl	22	SY.8656

. Joint



Ø inside	Ø outside	Thickness mm	Material	Ref. (10 item bag)
5,2 (M 5)	7	1,5	Fiber	SY.JO.205.RE10
10,2 (G 1/8)	14	1	Annealed alu	SY.JO.401.RE10

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