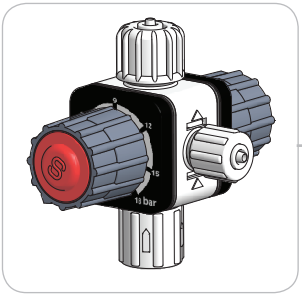
This operating instructions contains safety information that if ignored can endanger life or result in serious injury. They are indicated by this icon.

Use of this device with radioactive chemicals is forbidden!

Keep the device protected from sun and water.
Avoid water splashes.



# OPERATING INSTRUCTIONS FOR MULTIFUNCTION VALVE

Read it carefully!

ENGLISH Version

R1-08-16

## GENERAL SAFETY GUIDELINES
## USING THE PRODUCT WITH METERING PUMP

Danger! In emergencies the pump and multi-valve should be switched off immediately! Disconnect the power cable from the power supply!

When using pump and multi-valve with aggressive chemicals observe the regulations concerning the transport and storage of aggressive fluids!

When installing always observe national regulations!

Manufacturer is not liable for any unauthorized use or misuse of this product that may cause injury, damage to persons or materials.

Caution! Pump and multi-valve must be accessible at all times for both operating and servicing. Access must not be obstructed in any way!

Pump , multi-valve and accessories must be serviced and repaired by qualified and authorized personnel only!

Always discharge the liquid end before servicing the pump and multi-valve!

Empty and rinse the liquid end before work on a pump which has been used with hazardous or unknown chemicals!

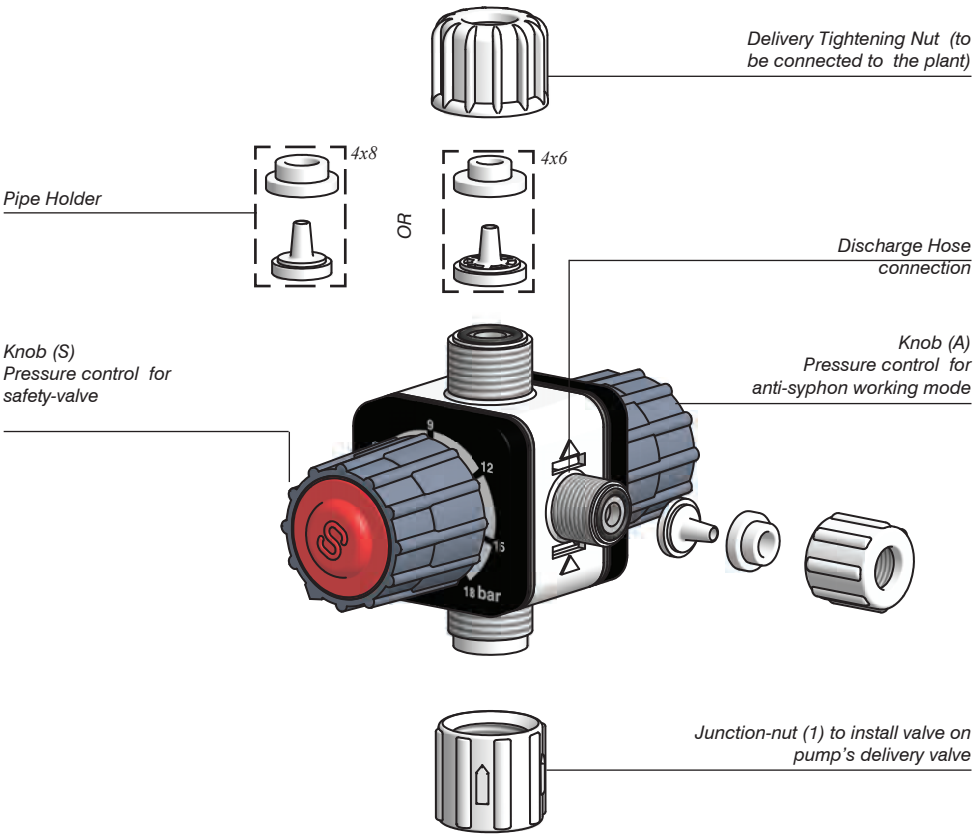
Always read chemical safety datasheet!

Always wear protective clothing when handling hazardous or unknown chemicals!

*Introduction:*

The multifunction valve acts as both an anti-siphon valve and a safety valve. Both of these features can be configured based on the pressure (bar) set using the two knobs: "S" and "A".

Warning: Never turn knobs out of range!
Warning: Always connect discharge hose to multifunction valve!




NOTE:

Multifunction valve can modify the flow rate of the metering pump connected.
Verify the pump flow rate after installing the multifunction valve.

Multifunction valve installation:

- Unscrew junction-nut (1) from multifunction valve.

- Remove the hose connection kit from pump's delivery valve. If pump is already installed please read pump's instructions-manual to avoid chemical injuries.

- Put junction-nut (1) on pump's delivery valve. Be careful to the arrow direction on junction-nut(1) body.

- Place multifunction valve (turning discharge side as desired) on junction nut (1).

- Screw junction-nut(1) by turning it clock-wise until it's completely locked.

Pressure valve operating mode:

"Pressure valve operating mode" keeps always closed the valve until is reached a specific pressure value to the input. Pressure value may be set using the above procedure.

-Pull knob labeled "A" until it produces a "click".
-Regulate pressure (bar) on desired value (within a range from 0 to 5bar).
-Press the knob labeled "A" until it produces a "click".

Anti-syphon valve operating mode:

Anti-syphon operating mode avoid that dosing product goes through the injection valve when the pump is not dosing because a negative pressure has been produced on the injection valve.

-Pull knob labeled "A" until it produces a "click".
-Regulate pressure (bar) on 0bar.
-Press the knob labeled "A" until it produces a "click".

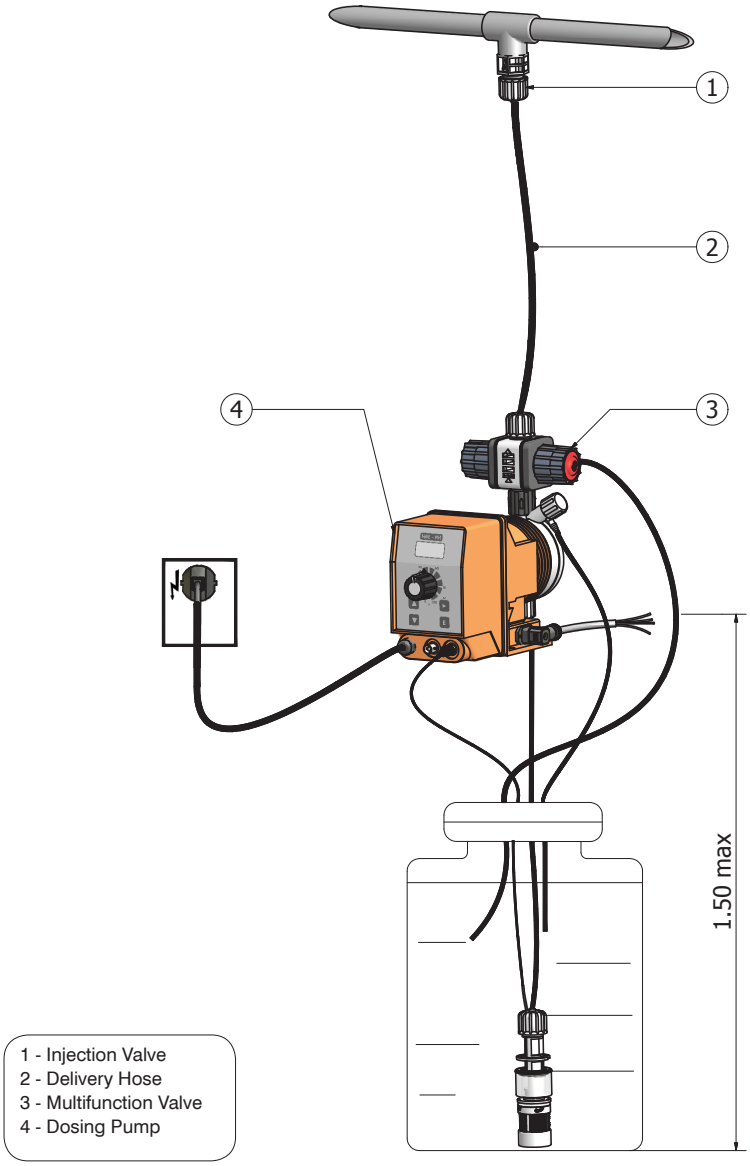
*Note: If product's tank is installed above the injection valve adjust knob (A) calculating the height (0,1bar per meter and adding 1bar).*

Safety-valve operating mode:

Safety-valve operating mode activates product discharge through discharge hose when is over-reached a specific pressure value (max 18bar).

Automatic product purge on over-reached pressure value:

-Pull knob labeled "S" until it produces a "click".
-Regulate pressure (bar) on desired value (within a range from 0 to 18bar).
-Press the knob labeled "S" until it produces a "click".


1
2
3
4
1.50 max
1 - Injection Valve
2 - Delivery Hose
3 - Multifunction Valve
4 - Dosing Pump

## 4. Technical Features and unpacking

| | |
|---|---|
| Safety-valve working range: | from 3 to 18 bar (43-261 psi) |
| Pressure valve working range: | from 1 to 5 bar (14.5-72.5 psi) |
| Fittings: | 1/2" , 3/8" |
| Discharge hose fitting: | 4x6 |
| Construction Materials (body): | PVDF |
| Construction Materials (idraulics): | PVDF |
| Seal: | VITON - DUTRAL - NBR |
| Membrane: | PTFE |

*Included into package also:*

*n. 1 junction nut (to install valve on pump's delivery valve) 1/2"*

*n. 1 extar holding ring for 4x8 (inox) hose*

*Instruction manual*

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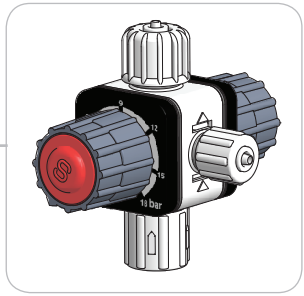
| | |
|---|---|
| **Descrizione Prodotto**<br>***Product Description*** | ***MF VALVE SERIES***<br>***VALVOLA MULTI FUNZIONE SERIE*** |
| **Codici Identificativi Prodotto**<br>(i simboli "_" completano il codice del prodotto in base alla configurazione delle varianti)<br>***Product Identification Codes***<br>*(the "_" symbols complete the product code based on the configuration of the variants)* | ***023 _ _ _ _ 1*** |




*Tutti i materiali utilizzati per la costruzione della pompa dosatrice e per questo manuale possono essere riciclati e favorire così il mantenimento delle incalcolabili risorse ambientali del nostro Pianeta. Non disperdere materiali dannosi nell'ambiente! Informatevi presso l'autorità competente sui programmi di riciclaggio per la vostra zona d'appartenenza!*