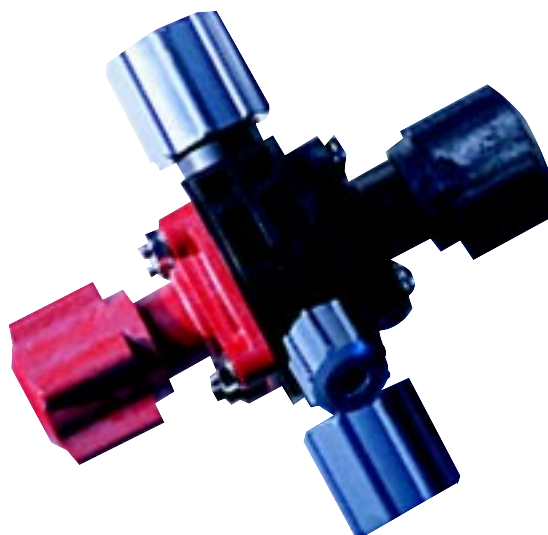


Operating Instructions

ProMinent® Multifunction Valve



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Read the operating instructions before installation and use. The warranty does not cover damages due to faulty improper installation and use. Keep for reference and replacement information.

BA MM 01 3/00 NA Order no. 7750086

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ProMinent® Multifunction Valve

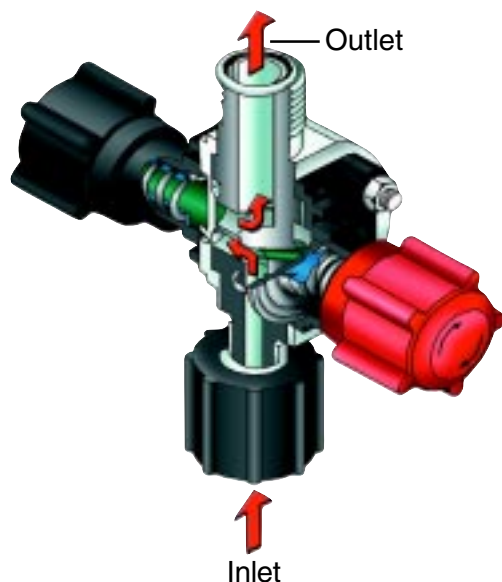
SAFETY INSTRUCTIONS

General Safety Considerations

- Wear protective clothing and glasses when working with or near chemicals.
- Refer to the MSDS for all chemicals being used.
- Use only ProMinent® parts, use of other parts may result in damage to equipment or injury.
- Flush all components that are in contact with chemicals prior to servicing.
- Secure all chemicals and equipment making them inaccessible to children and pets.
- Dispose of all chemicals and waste according to all local, provincial state and federal regulations.

Safety Operating Procedures

- Stop the flow of chemical through the system prior to working on the pump.
- Do not exceed the maximum operating pressure.



UNPACKING

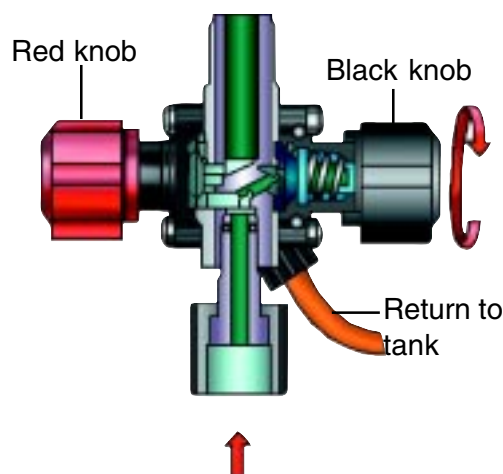
CHECK ALL EQUIPMENT FOR DAMAGE AND FOR COMPLETENESS AGAINST THE ORDER. REPORT INCORRECT ORDERS OR DAMAGE TO THE SELLER IMMEDIATELY.

INTRODUCTION

The ProMinent® multifunction valve is mounted directly on the liquid end of the pump for backpressure, antisiphon, pressure relief, priming and draining the discharge line. The multifunction valve is operated by means of smooth-action rotary knobs, which automatically return to their initial position when released. Made of PVDF, it can be used in feed systems for virtually all chemicals.

INSTALLATION NOTES:

- An injection valve must be installed at the injection point to prevent the contents of the system from flowing through the bypass when the valve is used.
- The o-ring on the multifunction valve is EPDM; if Viton® o-rings are required replace it with the Viton® o-ring supplied.
- Always connect a line returning to the tank to the multifunction valve to allow fluid to return to the tank.



"The multifunction valve screws directly onto the discharge valve of the metering pump.

"Unscrew the connection from the discharge valve.

"Screw the multifunction valve directly on to the discharge valve of the pump.

"Align the multifunction valve as desired.

"Attach the discharge line to the outlet of the multifunction valve with either the connection set or a GF screw fitting.

"Connect the line returning to the tank to the multifunction valve with the hose grommet and the union nut.

"Route the line returning to the tank back to the chemical tank.

DESCRIPTION OF CONTROLS AND OPERATION

The functions of the multifunction valve are produced by a spring-loaded diaphragms. One acts as a pressure relief valve and the other acts as a backpressure valve. When the **black** knob is turned clockwise the backpressure from the system is relieved. The **red** valve acts as a bleed valve when turned to prime the pump. The multifunction valve should NOT be used in place of an isolation valve.

HELPFUL TIPS

1L = 0.264 gallon

1000 mL = 1 L

1 bar = 14.5 psig

MAINTENANCE

Routinely look for leaks that could indicate a diaphragm rupture.

SPARE PARTS

"The backpressure setting is set at 21 psig (1.5 bar). It is factory set and is not adjustable."

Size I

Pressure relief range 145-189 psig (10-13 bar) 791715

Pressure relief range 232-276 psig (16-19 bar) 792011

For pump types: all gamma/4 (except PP4/PP5); gamma/L 1000, 1601, 1602, 1605, 1005, 1008, 0708, 0413, 0220; beta/

Size II

4, beta/5 1602, 1605, 1008; D-pump, Pneumados; alpha 1001, 1002, 1003, 0804, 0808; gamma/5 1602, 1605, 1006 (except PP4/PP5)

Pressure relief range 145-189 psig (10-13 bar) 792203

Pressure relief range 87-130 psig (6-9 bar) 740427

For pump types: all gamma/4 (except PP4/PP5), gamma/L 1605, 1008, 0713, 0420, 0232; beta/5, D-pump; alpha 0612, 0419; gamma/5 1310, 0613, 0813, 0417 (except PP4/PP5)

Size III

Pressure relief range 145-189 psig (10-13 bar) 792215

For pump types: gamma/4 1002 PP4/PP5;
gamma/5 0423, 0230 (except PP4/PP5)

Note: Multifunction valves mounted to stainless steel liquid ends require the following adapters.

Adapter for SS liquid ends with 1/4" FNPT.

Adapter made from PVDF.

7358651

Adapter for SS liquid ends with 3/8" FNPT.

Adapter made from PVDF.

7358659

SPECIFICATIONS

Material of construction

Valve housing

Diaphragm

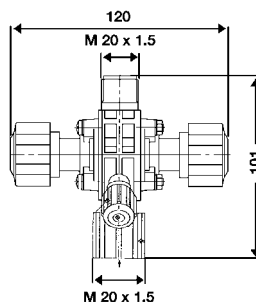
Seals

PVDF

PTFE coated

Viton® or EPDM

DIMENSIONS



REPAIR SERVICE

Repairs must be done by ProMinent Fluid Controls. Call your distributor or ProMinent at (412) 787-2484 in the US and (519) 836-5692 in Canada for a return goods authorization.

DO NOT return any goods without authorization. All returned items must be free of hazardous chemicals and clean when returned.

TROUBLESHOOTING

Check for clogs, diaphragm ruptures or corrosion of the spring. Replace multifunction valve if there is a diaphragm rupture.