

## INTRODUCTION

The perfusion pressurization accessory kit provides pressure to the individual reservoirs of the valve control system. This configuration normalizes the flow rates of solutions across multiple perfusion channels, and allows for greater ease of use with small-diameter tubing.

The clever design of the universal reservoir plug allows for easy insertion into 5, 10, or 20 ml BD syringes. Precise and accurate flow, even at low flow rates, is ensured using dual regulator controls. House air or nitrogen is kept at constant 20 PSI using the 160 psi input regulator. The 10psi output regulator is used to set the flow pressure with 0.1 PSI accuracy. Regulators include 5µm filters and a large, easy to read pressure gauge on the output side. Universal reservoir plugs are designed to fit directly into a 60 cc syringe holder (SH6/60 or SH8/60, sold separately).

The perfusion pressure kit for 8 channel valve controllers includes: 8-plug universal reservoir plug assembly with tubing harness, dual pressure regulator assembly with rod mounting clamp, eight 10ml BD syringes, eight stopcocks, and 25 feet of polyurethane tubing 4 mm I.D. x 6 mm O.D.

The kit for 6 channel valves includes everything listed above less two of the universal reservoir plugs, two 10ml syringes, and two stopcocks.

## SETUP AND OPERATION

1. Mount valve bracket assembly on rod stand.
2. Mount regulator bracket assembly on rod stand above valve bracket assembly.
3. Attach the luer-lock of the pressure plug manifold to the stopcock of the 10 psi output regulator.
4. Press-fit the 6mm gas/air supply line into the 160 psi input regulator quick-connect fitting. For easy removal of the air supply line, depress the connector collet and pull the tubing out at the same time.



5. Slowly turn on the air supply and listen for air leaks.
6. Set the input regulator to 20psi and the output regulator to 1psi.
7. The flow rate will be dependent upon the output pressure setting and tubing volumes. Investigators will need to calibrate the output pressure to achieve the desired perfusion flow rates for their specific configuration.

## ORDERING INFORMATION

Order No.	Model No.	Product
64-1711	VPP-6	Perfusion Pressure kit six-channel
64-1712	VPP-8	Perfusion Pressure kit eight-channel
64-1713	VPP-1	Universal reservoir plug
64-1714	PPT-25	Polyurethane Tubing 4 mm I.D. x 6 mm O.D.
64-0163	SH-6/60	Syringe Holder, 6 x 60 cc syringes
64-0385	SH-8/60	Syringe Holder, 8 x 60 cc syringes