

Pump Mounted Manual Control Valves Instruction Manual

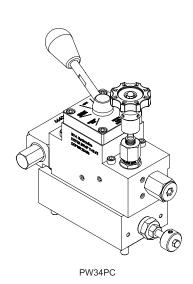
MODELS: PW34PC, PUW34PC

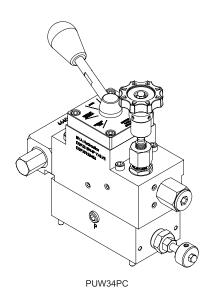
SFA Companies 10939 N. Pomona Ave. Kansas City, MO 64153 Tel: 888-332-6419 - Fax: 816-448-2142 E-mail: sales@bvahydraulics.com Website: www.bvahydraulics.com

This is the safety alert symbol. It is used to alert you to potential personal injury hazards.

Maximum Operating Pressure 10,000 PSI

Obey all safety messages that follow this symbol to avoid possible injury or death.





Save these instructions. For your safety, read and understand the information contained within. The owner and operator shall have an understanding of this device and safe operating procedures before attempting to use this device. Instructions and safety information shall be conveyed in operator's native language before use of this device is authorized. Make certain that the operator thoroughly understands the inherent dangers associated with the use and misuse of the product. If any doubt exists as to the safe and proper use of this product as outlined in this factory authorized manual, remove from service immediately.

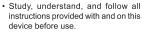
Inspect before each use. It is recommended that, prior to each use, an inspection be done by qualified personnel and that any missing or damaged parts be replaced with factory authorized replacement parts only. Any valve that appears to be damaged in any way, is worn, leaking or operates abnormally shall be removed from service immediately until such time as repairs can be made. Any valve that has been or suspected to have been subject to a shock load (a load dropped suddenly, causing the system pressure to exceed 10,000 PSI), shall be removed from service immediately until checked by qualified personnel. Owners and operators of this equipment shall be aware that the use and subsequent repair of this equipment may require special training and knowledge.

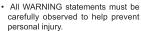


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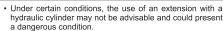
WARNING







- · No alteration shall be made to this device
- · Always wear protective gear when operating hydraulic equipment
- Keep hydraulic equipment away from flames and heat. Hydraulic fluid can ignite and burn. Do not operate if leaks are detected.
- Crush Hazard. Keep hands and feet away from loading area. Avoid pinch points or crush points that can be created by the load or parts of cylinder.
- To avoid crushing and related injuries: NEVER work on, under or around a lifted load before it is properly supported by appropriate mechanical means. Never rely on hydraulic pressure alone to support load.



- Cylinder must be on a stable base which is able to suppor the load while pushing or lifting. Ensure cylinder is fully engaged into/onto adapters, extension accessories.
- · Use shims, friction material or constraints to prevent slippage of the base or load.

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Center load on cylinder

- Distribute the load evenly across the entire saddle surface. Do not off-center loads on a cylinder. The load can tip or the cylinder can "kick out".
- This device is not suitable for use as support device! As the load is lifted, use blocking and cribbing to guard against a falling load.
- All personnel must be clear before lowering.

 Never try to disassemble a hydraulic cylinder, refer repairs to qualified, authorized personnel.



- The user must be a qualified operator familiar with the correct operation, maintenance, and use of cylinders. Lack of
- knowledge in any of these areas can lead to personal injury. Do not exceed rated capacity of the cylinder or any equipment in the system.
- Burst hazard exists if hose or connection pressure exceeds
- Inspect cylinder, hoses and connections before each use to prevent unsafe conditions from developing. Do not use if they are damaged, altered or in poor condition. Do not use a cylinder with bent or damaged coupler or damaged threads.
- Use gauge or other load measuring instrument to verify load.
- Do not subject the cylinder to shock loads.
 Never attempt to disconnect hydraulic connections under
- . Use only approved accessories and approved hydraulic fluid.
- Never attach ANY component not authorized by manufacturer. Never use other than factory provided and/or authorized
- fasteners.

HYDRAULIC HOSES & FLUID TRANSMISSION LINES

- Avoid short runs of straight line tubing. Straight line runs do not provide for expansion and contraction due to
- pressure and/or temperature changes.
 Reduce stress in tube lines. Long tubing runs should be supported by brackets or clips. Before operating the pump, tighten all hose connections with proper tools. Do not overtighten. Connections should only be tightened securely and leak-free. Overtightening can cause premature thread failure or high pressure fittings to burst.
- Should a hydraulic hose ever rupture, burst or need to be disconnected, immediately shut off the pump and release all pressure. Never attempt to grasp a leaking pressurized hose with your hands. The force of escaping hydraulic fluid can inflict injury
- Do not subject the hose to potential hazard such as fire,
- sharp objects, extreme heat or cold, or heavy impact. Do not allow the hose to kink, twist, curl, crush, cut or bend so tightly that the fluid flow within the hose is blocked or reduced. Periodically inspect the hose for wear.
- Do not pull, position or move setup by the hose.
- Hose material and coupler seals must be compatible with hydraulic fluid used. Hoses also must not come in contact with corrosive materials such as battery acid, creosoteimpregnated objects and wet paint. Never paint a coupler
- FAILURE TO HEED THESE WARNINGS MAY RESULT IN PERSONAL INJURY AS WELL AS PROPERTY DAMAGE.

PRODUCT DESCRIPTION

BVA Pump Mounted Manual Control Valves are designed and manufactured for safe hydraulic operation to 10,000 psi.



Ensure that the rated working pressure of each pressurized attachment be equal to or greater than the rated working pressure developed by the hydraulic pump.

BEFORE USE

- 1. Before using this product, read the owner's manual completely and familiarize yourself thoroughly with the product, its components and recognize the hazards associated with its use.
- 2. Verify that the product and the application are compatible. If in doubt, call BVA Hydraulics Technical Service (888)332-6419.
- 3. Inspect before each use. Do not use if broken, leaking or damaged components are noted.
- 4. Replace worn or damaged parts with BVA Hydraulics authorized replacement parts only.
- 5. Use adequate eye protection when operating or near this device.
- 6. Ensure method of confirming load is accurate and working properly. Have gauge or load cell accuracy verified by qualified personnel on a yearly basis.

SET UP

1. Connect and secure hoses, cylinders, fittings, gauges and pump etc. noting that the proper ports are connected. Always secure threaded port connections with non-hardening pipe thread compound. Take care not to introduce compound into port orifices. Use an approved, high-grade pipe sealant to seal all hydraulic connections. When using teflon tape, never apply the tape over ends of fittings where it can be torn loose and get into the hydraulic system.



If you are not trained and familiar with installing a valve, please have an authorized BVA service center perform this procedure.

OPERATION (refer to schematic flow path, page 4)

BVA Pump Mounted Valves are tandem center valves. Tandem centered valves allow oil to flow from the pump to tank when in the NEUTRAL position.

1. Tandem centered valves **must** be in "neutral" lever position before starting pump. To pressurize the pump manifold or the application (cylinder, spreader, etc.), simply position the lever left or right of center.

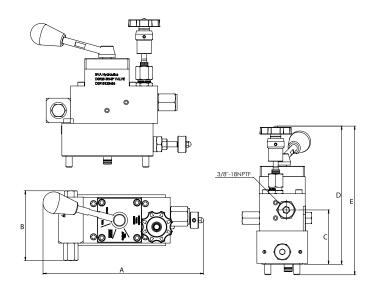
MAINTENANCE

- Inspect hoses and connections daily. Replace damaged components immediately with BVA Hydraulics parts only.
 Tighten connections as needed. Use pipe thread sealing compound when servicing connections.
- 3. Always use clean, approved hydraulic fluid and change as recommended or sooner if the fluid becomes contaminated (never exceed 400 hours). Follow pump manufacturers instructions for changing and adding hydraulic fluid. Use only good quality hydraulic fluid. We recommend BVA FJZ01 or equivalent when using with hand pump, air pump or electric pump. Never use brake fluid, transmission fluid, turbine oil, motor oil, alcohol, glycerin etc. Use of other than good quality hydraulic oil will void warranty and damage the cylinder, pump, hose etc.

Depressurize pump, disconnect all hydraulic lines to prevent accidental operation. Wipe the unit clean. Store in a clean, dry environment.

TROUBLESHOOTING

- 1. System will not build pressure.
 - a. Check pressure setting of pump, see pump's service instruction.
 - b. Check and tighten all hydraulic connections.
 - c. If trouble is not corrected, remove cylinder and hoses from the valve, place a gauge directly in valve port A and turn valve to advance position. If no pressure developed, the unit should be taken to service center. If pressure develops, the cylinder or connections are the problem.
- 2. Cylinder will not hold load. This is an indication of worn or damaged seals. Unit must be replaced/repaired by service center.



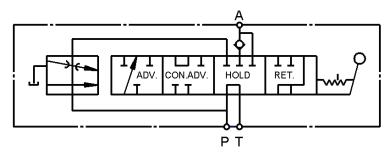
Dimension of PW34PC & PUW34PC

	Α	В	С	D	E
PW34PC	9.68"	4.2"	3.28"	8.33"	8.97"
PUW34PC	9.68"	4.2"	3.28	8.33"	8.97"

1. ADV.: Full flow advance.

CON. ADV.: Metered /Controlled Advance (pressure compensated).
 HOLD: Cylinder plunger hold (hold the pressure).
 RET.: Cylinder plunger retracted.

PW34PC & PUW34PC Control Valve Diagram



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