

C-62-A/D Contents

	Page
Specifications	2
Installation	3
Operation	3
C-62 Parts	4
Troubleshooting, Maintenance and Repair	5
Warranty	6

C-62-A/D Specifications

Capacity	Maximum		Minimum	
	gpm	l/min	gpm	l/min
	14	53	1	3.8

Pressure Range	Model Configuration			
C-62-	AA	DA	AB	DB
	psi	bar	psi	bar
	75-500	5-35	500-2500	35-172

Max Temperature: 200°F (93°C)

Inlet and Outlet Ports:

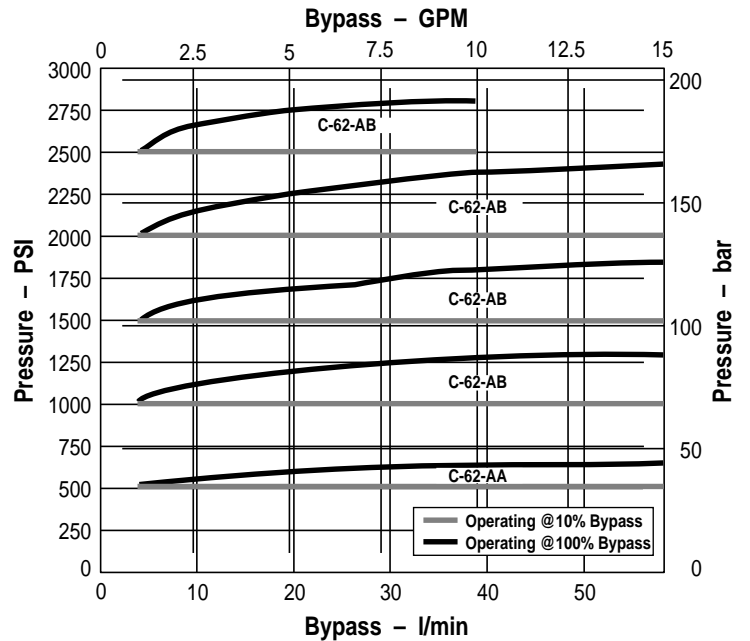
C-62-AA/AB	3/4" NPT
C-62-DA/DB	3/4" BSPT

Dimensions: (H x W x D)

8.6 x 2.7 x 2.3 in
(219 x 69 x 58 mm)

Weight

C-62	4 lbs (1.8 kg)
------	----------------



C-62-A/D Installation

Location

The bypass pressure regulating valve (Regulator) maintains a stable system pressure by changing the flow.

The Regulator prevents system pressure from exceeding a preset (adjustable) maximum. As the system approaches this maximum pressure, excess fluid is bypassed (to a supply tank, or back to the pump inlet). This prevents overpressurization and system failures.

Install the Regulator between the pump outlet and a shutoff device in the discharge plumbing. Appropriately sized, pressure-rated flexible hose is preferred.

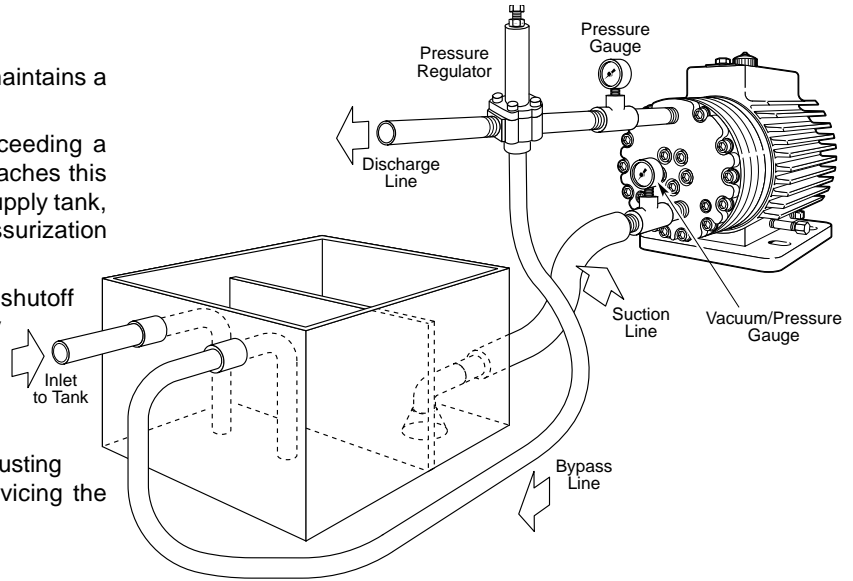
Mounting Position

The preferred mounting position is vertical with the adjusting bolt at the top. This allows easy access when servicing the Regulator components.

Connections

When operated as a backpressure regulator, a secondary pressure relief valve should be installed and set to relieve when pressures exceed the operating maximum.

For best operation as a bypass valve, the bypass line should return to the supply tank. If you must plumb the bypass line back to the pump inlet, have it enter the inlet line as far from the pump as possible. Contact the pump manufacturer, as a pressure regulator may be required in the pump inlet.



The bypass or outlet lines should be as large as the ports of the regulating valve. Do not install shutoff valves or other restrictions.

Install a high-quality, industrial pressure gauge upstream from the valve to monitor system pressure. Failure to do so may result in overpressurization and premature failure of pumping system components.

If volatile fluids will be pumped, ground the valve with a #10-32 grounding screw (to discharge any accumulation of static electricity).

C-62-A/D Valve Operation

The locking nut (2) must be used when adjusting the Regulator and during operation as it is a spacer that prevents the bypass valve from being inadvertently locked shut.

Pressure Adjustment

Systems *with* Shutoff Guns or Valves

1. Turn off system.
2. With a 10 mm allen wrench turn the adjusting bolt (1) counterclockwise until there is no longer any force on the spring in the Regulator.
3. Be certain that the piping and all valves and nozzles are open. With an accurate pressure gauge installed upstream from the valve, start the system and let it run for a few minutes to remove any air.
4. With the air removed, turn the adjusting bolt clockwise until you reach the desired pressure.
Do not exceed the maximum rated pressure of the pump or Regulator.
5. Recheck the bypass pressure each time and readjust if necessary. Turn the adjusting bolt clockwise to increase or counterclockwise to reduce the pressure.
6. When both the pressure and the flow have been set, turn the lock nut (2) clockwise to secure the adjustment.

Systems *without* Shutoff Guns or Valves

Note: When making this adjustment, you must be able to observe the amount of fluid being bypassed.

1. Turn off the system.
2. Turn the adjusting bolt (1) counterclockwise until there is no longer any force on the spring in the Regulator.
3. With an accurate pressure gauge installed upstream from the Regulator, start the system and let it run for a few minutes to remove any air.
4. Be certain all nozzles and orifices are open.
5. When all air has been removed, begin turning the adjusting bolt clockwise until you reach the desired system pressure.
Do not exceed the maximum rated pressure of the pump or the regulator.
6. If the system discharge pressure is less than desired, check the pump speed and delivery and the size of the nozzle or orifice.
7. When both the pressure and the flow have been set, turn the lock nut (2) clockwise to secure the adjustment.