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› Instruction Manual for YJMKOI Upgraded 350 Unloader Valve Pressure Washer Pump with Knob

YJMKOI 350

Instruction Manual for YJMKOI Upgraded 350 Unloader Valve Pressure Washer Pump with Knob

Model: 350 | Brand: YJMKOI

1. PRODUCT OVERVIEW

The YJMKOI Upgraded 350 Unloader Valve is a crucial component designed for high-pressure washer systems. It features a robust steel and brass construction, ensuring durability and corrosion resistance. This valve is equipped with an adjustable knob to control pressure and an advanced high-pressure resistant compensator for stable operation. It is compatible with various high-pressure pumps, including those from AR, Comet, Cat Pump, BE, and specifically Catpump Model 7630.



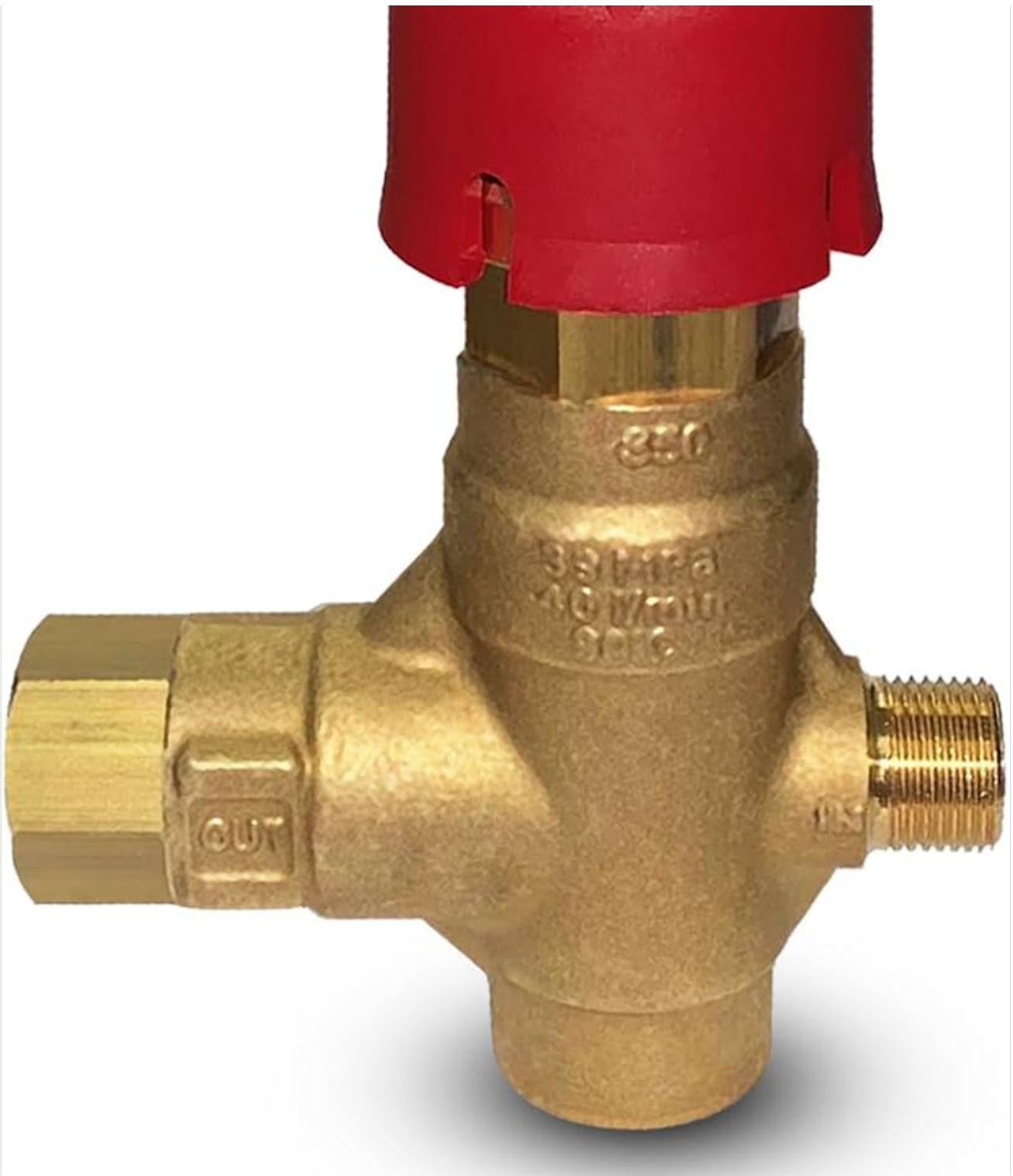


Figure 1: YMKOI Upgraded 350 Unloader Valve.

This unloader valve is designed to manage the water flow and pressure within your pressure washer system, bypassing water at reduced pressure when the gun is shut off. Its design focuses on providing reliable security and superior performance for your equipment.

2. SPECIFICATIONS

Detailed technical specifications for the YMKOI Upgraded 350 Unloader Valve:

- **Inlet/Outlet/Bypass:** G3/8" MF
- **Minimum Adjustable Pressure:** 507 psi (35 bar)
- **Rated Pressure:** 5075 psi (350 bar)

- **Maximum Permissible Pressure:** 5650 psi (390 bar)
- **Maximum Flow Rate:** 10.5 US gpm (40 L/min)
- **Maximum Temperature:** 195 °F (90 °C)
- **Material:** Nylon, Alloy Steel, Brass
- **Item Dimensions (L x W x H):** 2 x 4 x 7 inches
- **Item Weight:** 2.1 pounds
- **Number of Ports:** 3
- **Valve Type:** Piston Valve

Technical specifications

Max. flow rate: 40 l/min. Max temperature: 90°C

Rated pressure	bar – MPa	350 – 35
Permissible pressure	bar – MPa	390 – 39
Minimum adjustable pressure	bar – MPa	35 – 3.5
Trapped pressure at circuit closure	%	12
Pressure drop to reset bypass	%	44
Inlet Outlet bypass		G 3/8 MF
Weight	g	880

Max temperature 90°C : The valve has been designed for a continuous use at a water temperature of 60°C. It can resist for short periods at a maximum temperature of 90°C.

Trapped pressure at circuit closure: This is the maximum pressure increase implemented in the circuit for the intervention of the valve and to bring all the fluid in bypass (percentage figures of the pressure set up)

Pressure drop to reset bypass: This is the pressure reduction necessary in comparison to the set up, in order that the valve brings back pressure in the circuit. (percentage figures of the pressure set up)

Figure 2: Technical specifications table.

Dimension Information

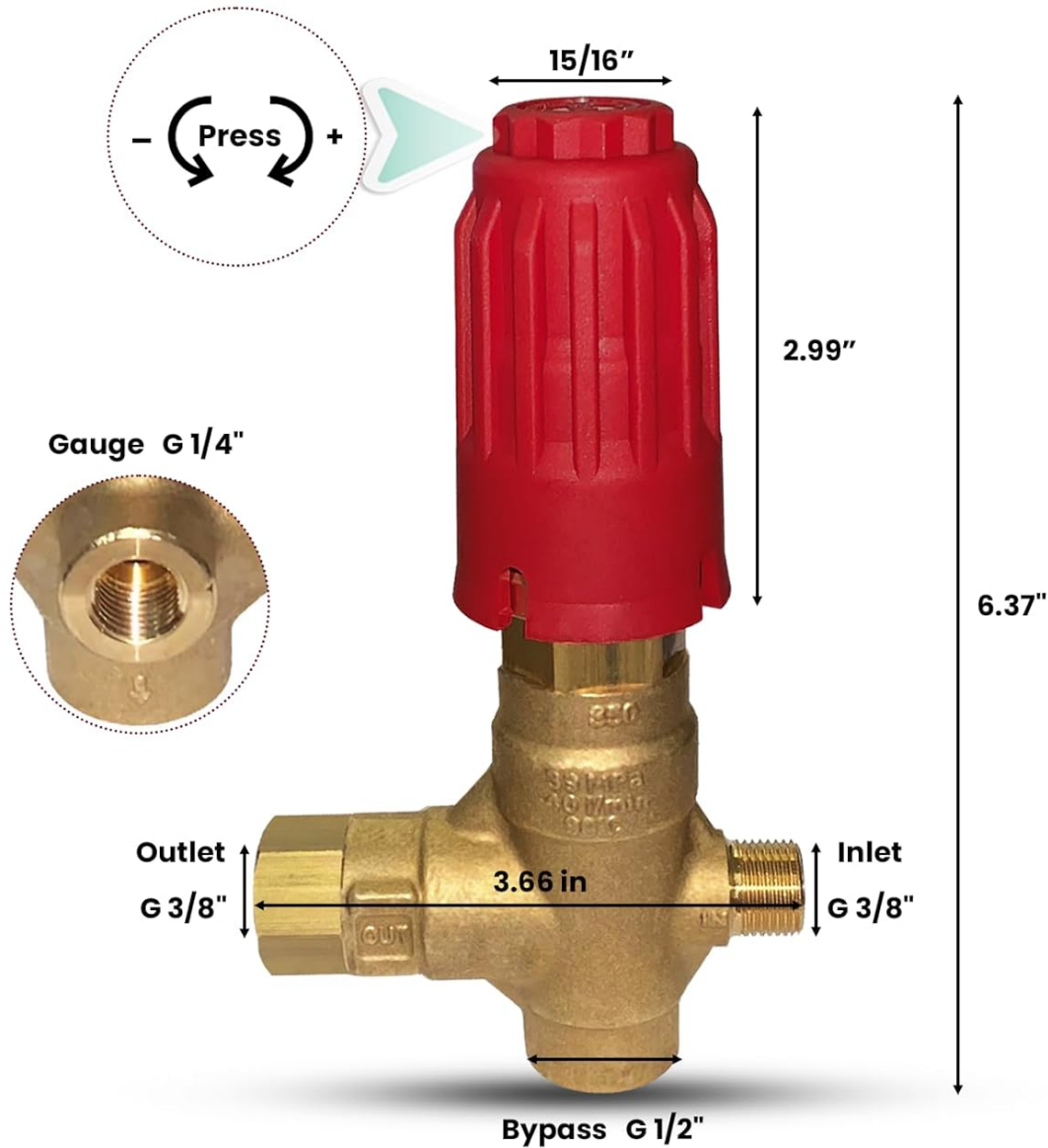


Figure 3: Dimension information for the unloader valve, showing various connection sizes and overall dimensions.

3. COMPATIBILITY

The 350 Unloader Valve is designed for wide compatibility with various high-pressure pumps. It is suitable for use with pumps from leading manufacturers such as AR, Comet, Cat Pump, and BE. Specifically, it is compatible with Catpump Model 7630.

High Quality



- ✓ Assembly equipped with a high pressure proof compensation
- ✓ Safe and Reliable
- ✓ Easy maintenance

Figure 4: The unloader valve in a high-pressure washing application, demonstrating its robust performance.

4. SETUP AND INSTALLATION

Important Caution: Unloader valves are critical safety devices within a pressure washer system. Incorrect installation or improper setting of the unloader valve can lead to extremely dangerous situations, potentially causing severe damage to the pump and posing a significant risk to the operator. It is strongly recommended to seek professional assistance for the installation and initial setup of this component.

Ensure all connections are secure and leak-free. Refer to your pressure washer's specific pump manual for detailed connection diagrams and pressure settings. The valve features G3/8" MF inlet, outlet, and bypass connections.

Adjustable Unloader

- The pressure regulating Unloader valve with Red knob features gun shut off, the water flow is bypassed at reduced pressure.
- Adjustable locknut to control max pressure.
- Sturdy Steel and brass construction.
- Red nylon knob.

****Caution****

Unloader valves are one of the most important safety devices on a pressure washer system. Failure to install and set the unloader properly could result in a very dangerous situation causing severe damage to the pump and possibly the operator.



Figure 5: The adjustable unloader valve, highlighting the caution regarding professional installation.



Unloader Valve With Knob

Figure 6: Detailed views of the unloader valve, showing its various ports and the adjustable knob mechanism.

5. OPERATING THE UNLOADER VALVE

The unloader valve automatically regulates pressure within the system. When the spray gun is released, the valve diverts water flow back to the pump inlet or a bypass line, reducing pressure on the pump and motor. This prevents overheating and extends the life of your pressure washer.

To adjust the maximum pressure, use the red knob on the valve. The adjustable locknut design allows for precise control over the maximum pressure setting. Turn the knob clockwise to increase pressure and counter-clockwise to decrease pressure. Always refer to your pressure washer's specifications and safety guidelines when adjusting pressure.

6. MAINTENANCE

Regular maintenance of your unloader valve is essential for optimal performance and longevity. Inspect the valve periodically for any signs of wear, leaks, or corrosion. Ensure all connections remain tight.

- **Cleaning:** Keep the exterior of the valve clean from dirt and debris.

- **Leak Checks:** Regularly check for any water leaks around the connections or the valve body. Address any leaks promptly.
- **Storage:** When storing the pressure washer for extended periods, especially in freezing temperatures, ensure the system is properly drained to prevent damage to the valve and pump.

7. TROUBLESHOOTING

If you experience issues with your unloader valve, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Pressure Fluctuations	Air in the system, worn seals, or incorrect pressure setting.	Bleed air from the system. Inspect and replace seals if necessary. Adjust the pressure knob.
No Pressure or Low Pressure	Unloader valve stuck open, clogged nozzle, or insufficient water supply.	Check water supply. Clean or replace nozzle. Inspect unloader valve for obstructions or damage.
Constant Bypass/Water Recirculation	Unloader valve not seating properly or internal component failure.	Inspect valve for debris or damage. Professional repair or replacement may be required.
Leaks from Valve	Loose connections, damaged O-rings, or cracked housing.	Tighten connections. Replace O-rings. If housing is cracked, replace the valve.

For complex issues or if you are unsure about troubleshooting steps, it is always best to consult a qualified professional.

8. PRODUCT VIDEO

Watch the official product video for a visual overview of the YJMKOI Upgraded 350 Unloader Valve Pressure Washer Pump with Knob:

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Video 1: Overview of the YJMKOI Upgraded 350 Unloader Valve, showcasing its features and construction.

9. WARRANTY AND SUPPORT

YJMKOI is committed to providing high-quality products and excellent after-sales service. If you have any questions, concerns, or require assistance with your Upgraded 350 Unloader Valve, please do not hesitate to contact us. We are dedicated to ensuring your satisfaction.

For support, please refer to the contact information provided with your purchase or visit the official YJMKOI website.