

OMNI X
TECHNOLOGIES

PRESSURE LIMITING VALVE

Installation Manual

Model: OMNIX15PLV



Protect your plumbing system from
excessive water pressure.

Stable pressure regulation • Compact inline design • Durable brass construction • Designed for domestic plumbing systems • WaterMark compliant installation design

INTRODUCTION

The Omni X Pressure Limiting Valve regulates incoming water pressure in domestic plumbing systems.

It protects pipework, fixtures, and appliances from excessive pressure while ensuring stable system performance.

Typical Applications: Residential water supply systems, appliance protection, pressure control installations.

TYPICAL APPLICATIONS

- Residential water supply systems
- Protection of hot water systems
- Appliance pressure protection
- Domestic plumbing compliance installations

Document: OMNIX Pressure Limiting Valve Installation Manual
Model: OMNIX15PLV
Document No.: OMNIX-TM-IM-01
Version: 1.0
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TECHNICAL SPECIFICATIONS

Connection Size

15 mm compression

Pressure Rating

PN16 – Maximum allowable operating pressure classification

Maximum Operating Temperature

80°C

Pressure Adjustment Range

500 kPa (+/-10%)

Materials

Body: Brass

Seals: NBR

Internal Components: Stainless steel

Valve Body: Brass

Adjustment Cap: ABS

Spring: Stainless Steel

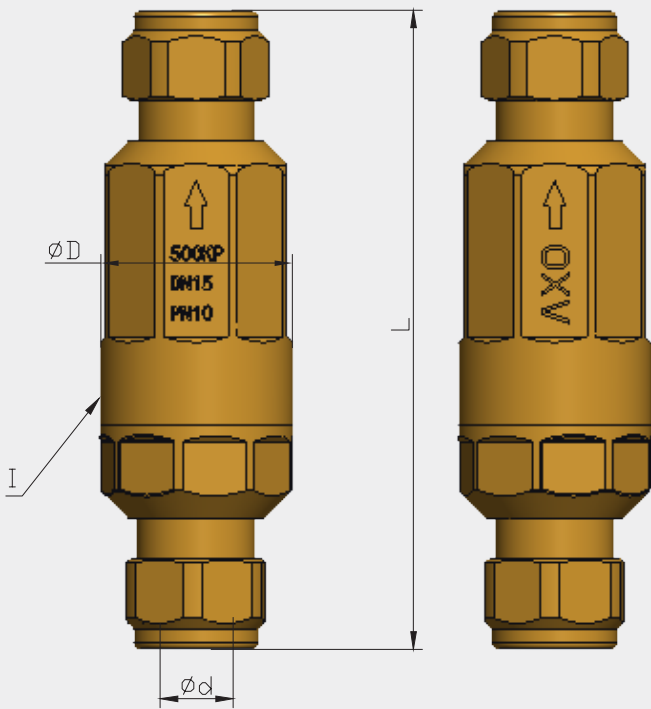
Valve Seat: Brass

Seals: NBR



All Omni X valves are backed by a **2-year parts and labour warranty** across the complete valve range.

PRODUCT DIMENSIONS

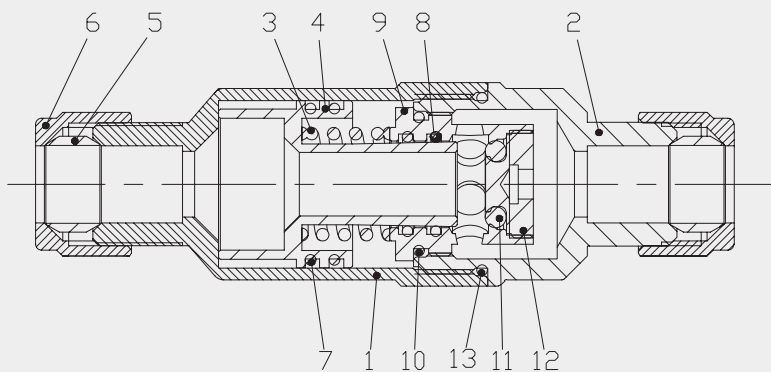


DIMENSIONS

Size	1/2 inch
Length (L)	115 mm
Outer Diameter	Ø34 mm
Connection Diameter	Ø13 mm

MAIN COMPONENTS & MATERIALS

1 Body	C46500
2 Fixing Nut	C46500
3 Spring	S304
4 Sliding Piston	C46500
5 Ferrule Copper	475 mm
6 Ferrule Cap	HPb57-3
7 O-Ring	EPDM
8 O-Ring	EPDM
9 Sliding Sleeve	C46500
10 O-Ring	EPDM
11 O-Ring	EPDM
12 Sealing Cap	C46500
13 O-Ring	EPDM



PERFORMANCE MARKING

Standard	AS1357.2 WM75166 DR PLV 15 LF
Maximum Operating Temperature	80°C
Maximum Inlet Pressure	2000 kPa
Flow Rate	50 LPM
Outlet Pressure	500 kPa

INSTALLATION REQUIREMENTS



Failure to follow installation instructions may result in unsafe performance.

All installations must comply with:
AS/NZS 3500 Plumbing and Drainage.

Pre-Installation Checklist

- Flush pipework
- Confirm supply pressure limits
- Verify flow direction
- Ensure maintenance access.



Installation should be performed by a licensed plumber.

INSTALLATION PROCEDURE

Step 1

Flush pipework.

Step 2

Confirm flow direction.

Step 3

Install valve in supply line.

Step 4

Secure compression fittings.

Step 5

Open water supply slowly.

Step 6

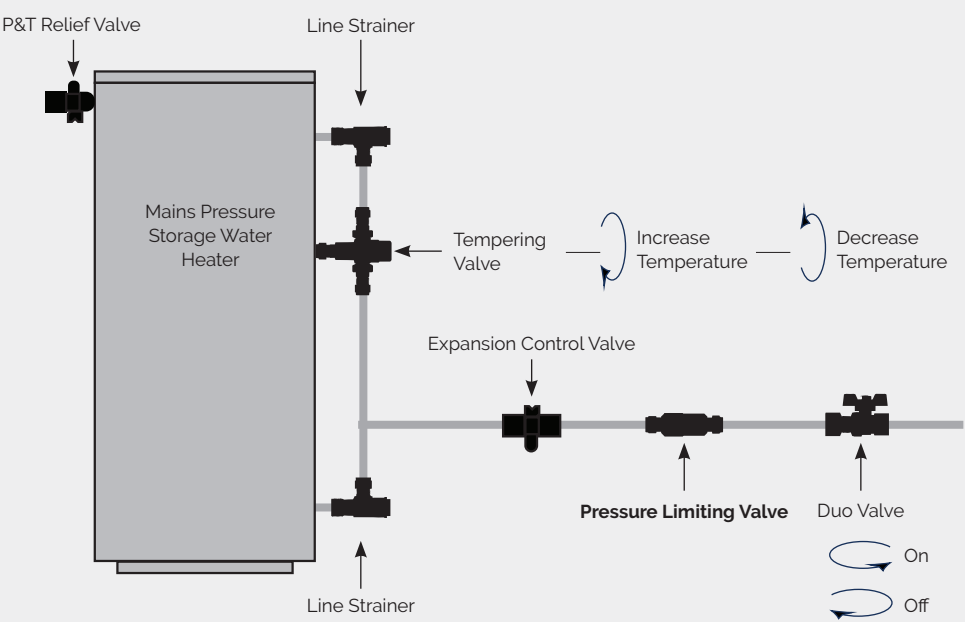
Check for leaks.

Step 7: Verify downstream pressure.

INSTALLATION DIAGRAM, MAINTENANCE & TROUBLESHOOTING

Mains Pressure Water Heater - Domestic Installations

Valve fitted remotely from the Heater



Important Note

Tempered water delivered to sanitary fixtures must not exceed 50°C in accordance with AS/NZS 3500.

MAINTENANCE

Inspect system annually.

Maintenance

- Clean strainers
- Verify pressure
- Inspect fittings.

TROUBLESHOOTING

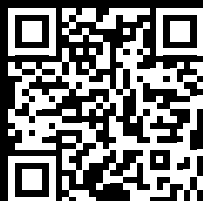
Issue	Possible Cause	Solution
Downstream pressure too high	Incorrect pressure setting	Adjust valve to required pressure
Pressure fluctuation	Supply pressure instability	Install pressure reducing valve upstream if required
Reduced water flow	Debris or blockage in valve	Flush system and inspect valve
Water leakage at fittings	Loose compression fittings	Tighten fittings and inspect seals
No water flow	Blocked supply line	Check water supply and clear obstruction



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Scan for product information and documentation



www.omnixtechnologies.com.au