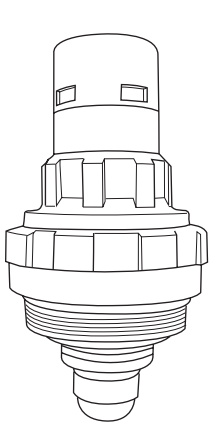
Product Specifications

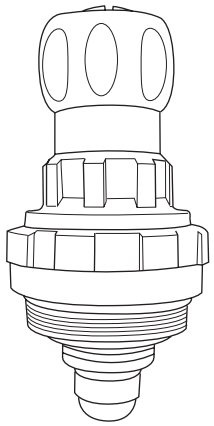
Maximum Inlet Pressure:	16 bar
Outlet Adjustable Pressure:	1.0 - 6.0 bar
Pre-set Pressure:	4 bar
Maximum Temperature:	45ºC
Test Port Size:	¼ "BSP
Suitable Media:	Water
	Compressed Air
	Neutral non-adhesive liquids/gases

Spares

Product Code	Description
312 compact	
REDC312010:	Adj 1.0-6.0 bar PRV cartridge
312 OEM	
REDC355045:	2.1 bar pre-set & locked PRV cartridge
REDC355030:	3 bar pre-set & locked PRV cartridge
REDC355070:	3.5 bar pre-set & locked PRV cartridge



312 OEM Cartridge



312 compact Cartridge

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Installation and Maintenance Instructions

RELIANCE WATER CONTROLS

312 Compact / 312 OEM Pressure Reducing Valves

WRAS APPROVED PRODUCT

Reliance Worldwide Corporation (UK) Ltd.

Reliance Worldwide Corporation (UK) Ltd are part of the Australian based group of companies collectively known as Reliance Worldwide Corporation, with the UK brand known as Reliance Water Controls.

Reliance Worldwide Corporation (UK) Ltd is a specialist in the design, distribution and technical support for temperature and flow controls.

With group offices and manufacturing plants throughout the world RWC offers a wealth of knowledge and expertise which is reflected throughout our products. Being part of many specialised trade associations and having our own UKAS accredited laboratory, makes us at the forefront of any new regulations or changes which impact the industry, and allows for continuous product development and innovation, within our specialised product area.

General Function

The 312 compact / 312OEM pressure reducing valves are predominantly used in domestic installations for protection against excess supply pressure. The pressure reducing valve will protect water systems from fluctuating mains supplies, which can potentially cause damage to any plumbing system. The valves are 'drop tight' therefore they will not allow the pressure to increase (creep) under no flow conditions.

Installation

Please ensure you do not put the valve under any undue stress in the pipe work.

Install the 312 compact / 312 OEM pressure reducing valve into your pipe work, it can be installed in any orientation as long as the flow is in the correct direction, this is indicated by the arrow on the base of the valve.

The minimum pipe length downstream of the PRV, before any elbow is fitted must be no less than 5 times the pipe size. Eg. DN25 would equal 5" distance. This is to protect against noise and to ensure a laminar flow.

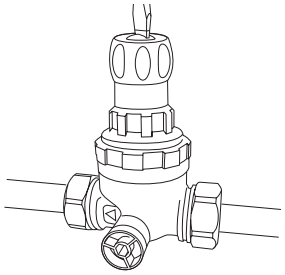
Commissioning

312 Compact

Please Note: The valve should only be adjusted when under no flow conditions. Pre-set pressure is 4bar.

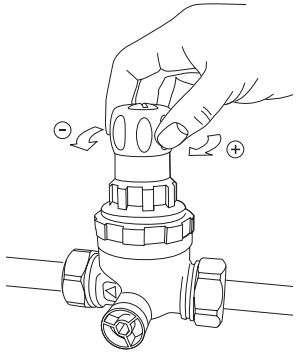
To adjust and set the pressure on the valve:

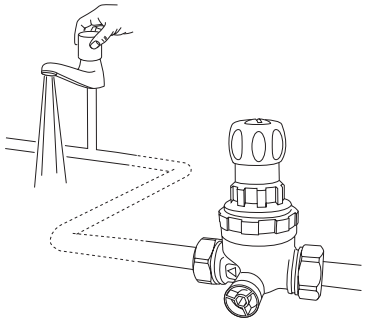
1. Loosen the securing screw on top of the pressure reducing valve cartridge.



2. Twist the cap anti-clockwise to decrease the pressure down to it's minimum setting.

3. Open a tap downstream of the pressure reducing valve to relieve the excess pressure for a couple of seconds.

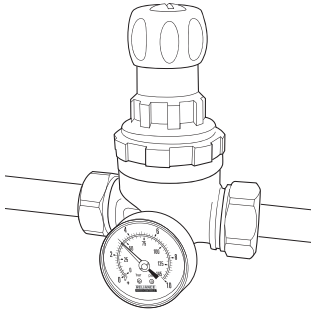




4. Twist the cap clockwise to increase the pressure to the desired setting

5. You may fit a ¼" pressure gauge to the test ports on the base of the valve.

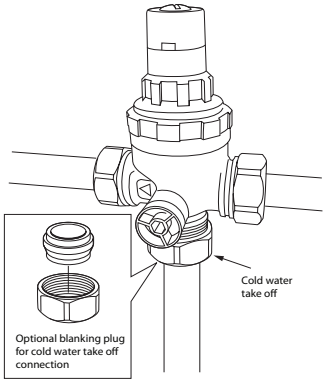
6. Re-tighten the securing screw on the top of the cartridge.



312 OEM

This valve is pre-set and locked so is therefore non adjustable.

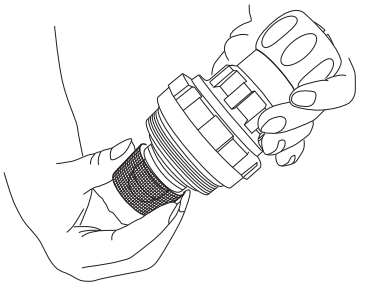
The 312 OEM valve comes in two designs one is a standard straight through pressure reducing valve, the other has a cold water take off connection this allows for two seperate outlet connections.



Maintenance

To service the integral strainer:

1. Isolate the water upstream and downstream of the pressure reducing valve
2. Use a spanner on the base of the cartridge to unscrew it. Once loose, you can remove the cartridge from the brass body.



3. The strainer can be found at the base of the cartridge, it can easily be removed by sliding it off the end of the cartridge

4. Rinse the strainer under clean running water, until any debris has been washed away
5. Replace the strainer onto the end of the cartridge
6. Re-insert the pressure reducing valve cartridge into the brass body
7. Using a spanner, screw the cartridge back into the valve body.