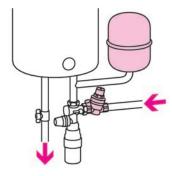
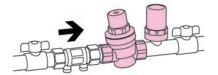
Installation



Install an expansion vessel (between the pressure reducing valve and the water heater) to absorb the pressure increase downstream of the reducing valve (when this is closed), caused by the water heater exceeding the specified temperature.



When installed in a system at risk of water hammer, specific devices should be installed to prevent damage to the pressure reducing valve.

Please leave this Manual for the User

In this procedure document we have endeavoured to make the information as accurate as possible.

We cannot accept any responsibility should it be found that in any respect the information is inaccurate or incomplete or becomes so as a result of further developments or otherwise.

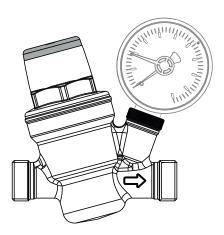
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533H Prescal high performance pressure reducing valve



These installation instructions are for the Altecnic 533H high performance pressure reducing valves with compression or female threaded ends.

Introduction

533H pressure reducing valves have a specially shaped diaphragm to give accurate pressure regulation in response to changes in downstream pressure.

The control stem housing of the cartridge is made from a plastic material with a low co-efficient of adhesion, which reduces the probability of scale deposits forming, the main cause of pressure reducing valve malfunction.

The cartridge and strainer screen are easily removed for periodic cleaning and maintenance.

The 533H series of pressure reducing valve is certified according to BS EN 1567 for operating with inlet water temperatures up to 80°C.

The 533H is specifically designed for higher flow rates with low a low noise level when operating.

Warning

The following instructions must be read and understood before installing and maintaining the product.

CAUTION! Failure to follow these instructions could result in a safety hazard!

Construction Details

Component	Material	Grade
Component	riateriat	Grade
Body	DZR chrome plated	BS EN 12165 CW602N
Cover	Nylon	PA 66GF30
Control stem	Stainless steel	AISI 303
Cartridge	Polymer	PPSG40
Internal components	Polymer	PSU
Diaphragm	EPDM	
Seals	EPDM	
Strainer screen	Stainless steel	AISI 304

Technical Data

Max inlet pressure:16 barOutlet pressure setting range:1 to 5.5 barFactory setting:3 barMax working temperature:80°C

Medium: potable water
Pressure gauge connection: G1/4

Pressure gauge connection: G1/4
Certification: BS EN 1567

WRAS approved product: Yes

Recommended Flow Rates

For an average flow velocity of 2 m/s, the maximum flow rates for each valve size, according to BS EN1567 are:

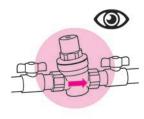
Size		
l/m	21.16	37.83

Installation

Please read these instruction before commencing installation to ensure the correct fitting position is selected and sufficient space and access is available for adjustment and any future maintenance.

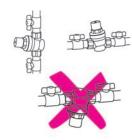


Assembly and disassembly should always be carried out while the system is cold and not under pressure.



The valve must be installed with the flow direction arrow on the body pointing in the same direction as the flow

It is recommended that service valves should be installed upstream and downstream of the pressure reducing valve should maintenance be required in the future.



The valve can be installed in both horizontal and vertical pipes.

If installed in a horizontal pipe the nylon cover should be upper most as illustrated.



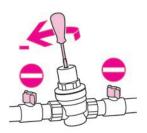
The pressure reducing valves should not be installed below ground, for the following reasons:

- The reducing valve may be damaged by frost.
- Inspection and maintenance operations may be difficult.

Setting







The 5334...H and 5337...H series reducing valves are factory set to 3 bar.

The setting can be changed using a suitably sized screw driver using the screw visible from the top of the nylon cover.

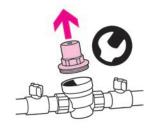
For valves fitted with a pressure gauge the outlet pressure can be measured on the pressure gauge, which can be used to continually measure the outlet pressure.

For valves with a gauge port, by using the 2 service valves the valve can be isolated, a pressure gauge can be fitted whilst the outlet pressure is being set and then removed to set another pressure reducing valve.

For valves without a gauge port a pressure gauge must be installed downstream of the valve in order to set the valve to a known setting.

Perform the setting by turning the screw on the top of the plastic casing, clockwise to increase the pressure setting and anticlockwise to decrease it.

Maintenance







It is recommended to carry out maintenance and cleaning of the removable cartridge on a regular basis and if the reducing valve does not maintain the set value.

Unscrew the setting screw anticlockwise to take tension off the internal spring.

Using a suitable sized spanner remove the nylon cover.

Using pliers or similar tool pull the cartridge out of the body.

Remove the strainer screen form the cartridge.

After inspection and cleaning, the entire cartridge can be refitted or if there are signs of damage replaced with a spare cartridge (code 533000H).

Refit the nylon cover, the minimum tightening torque is 20 ±2 Nm.

Reset the valve to the required outlet pressure using the procedure detailed in 'Setting'.



The damaged cartridge and/or strainer screen should be disposed of in a suitable manner.