

"PR" VALVE PRESSURE REGULATING VALVE



Applies to the following models **ONLY**:

PR

Please read carefully **BEFORE** commencing installation.

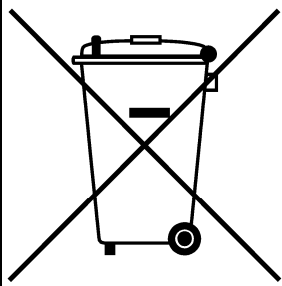
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ENVIRONMENTAL INFORMATION



UK Regulation SI 2013 3113 requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product must be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities.

IMPORTANT WARNING NOTES

1. The Hytek Pressure Regulator is only intended for use as a balance valve in the suction lines of fuel pumps drawing fuel from above ground storage tanks. The Hytek PR will prevent emptying of the tank under gravity, in the event of the fuel pump suffering damage as a result of vandalism or an accident, as well as flooding of the air separator.
2. This valve must not be used to regulate the flow of fuel in lines carrying petrol or other flammable liquids.
3. Installation of this valve, and its associated pipe work, should only be undertaken by qualified installation engineers.
4. The maximum pressure the PR will operate under is 50 p.s.i. (3.4 Bar).

PRODUCT DESCRIPTION

Cast aluminium valve offering pressure relief & siphon protection for above ground diesel storage tanks.

INSTALLATION

1. **THE PR VALVE MUST BE INSTALLED AT THE LOWEST POINT IN THE SUCTION LINE.**
2. A gate valve must be fitted in the fuel line between the storage tank and the Hytek PR.
3. Ensure the pipe from the storage tank is connected to the port marked "IN" on the PR. Connection of the valve to the pipe work is by removable flanges which have 1½" BSP taper threads.
4. For optimum performance the Hytek PR should be installed at the lowest point in the pipe line connecting the fuel storage tank to the pump as shown on the installation diagram.

NB1 - The valve can be mounted horizontally, vertically or in any other orientation BUT remember to allow access to the adjuster screw on the bottom of the valve.

NB2 - If a single fuel line from the storage tank is split to supply more than one fuel pump, each pump MUST have a Hytek PR fitted into its respective branch of the pipe work to ensure effective pressure regulation of the fuel supply.

NB3 - If the fuel pump has an air separator the adjuster screw on the underside of the PR must be set correctly prior to use, to ensure fuel does not leak from the pump air separator outlet port.

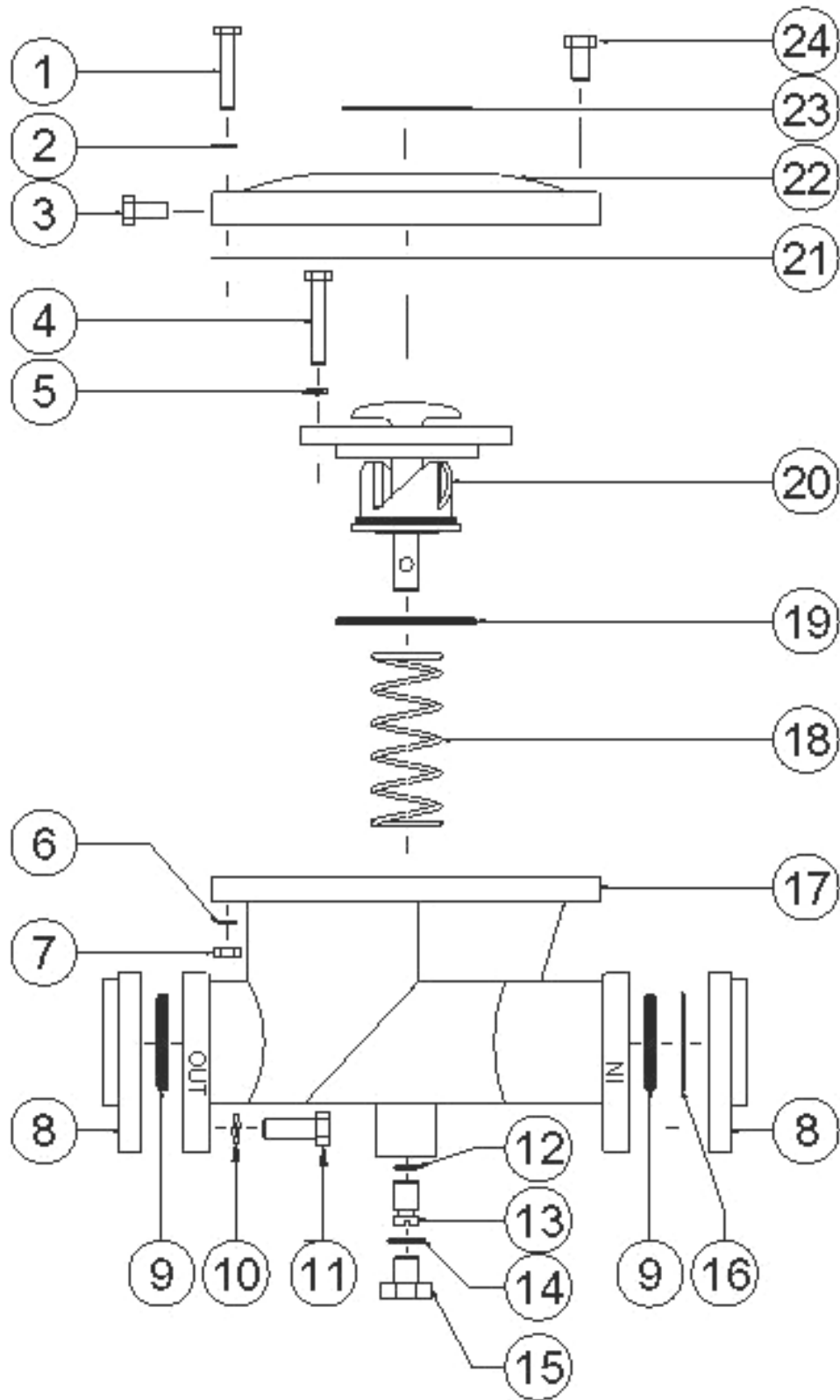
FILTER CLEANING

To clean the filter, first close the gate valve. The PR can then be unbolted from the connection flanges to remove it from the pipe work. It is now possible to remove and clean the filter.

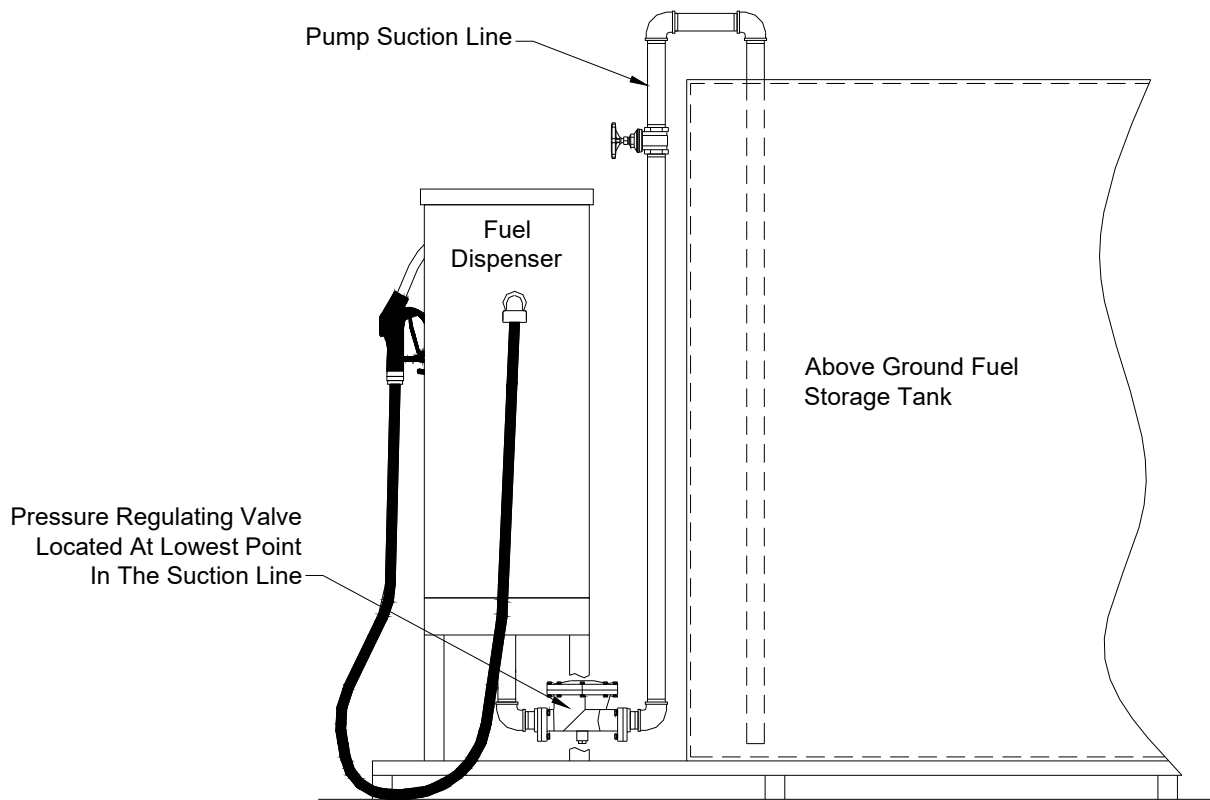
PARTS LIST

ITEM	PART DESCRIPTION	PART NUMBER
1	M6 X 35 Bolt (X8)	
2	M6 Plain Washer (X8)	
3	Breather	A5152
4	M6 X 40 Bolt (X3)	
5	M6 Spring Washers (X3)	
6	M6 Plain Washer (X3)	
7	M6 Flanged Nuts (X8)	
8	Triangular Flange (X2)	FLNG
9	Flange O-Ring (X2)	OR.47X5
10	3/8" Spring Washers (X6)	FLNG.WASH.PR
11	3/8" X 1" UNC Bolts (X6)	FLNG.BOLT.PR
12	Adjuster Screw O-Ring	OR.11X2.5
13	Adjuster Screw	A5157
14	Adjuster Screw Sealing O-Ring	OR.12X2.5
15	Sealing Screw	A5158
16	Filter	FILT.UPV
17	Housing	A5144
18	Spring	A5153
19	Valve O-Ring	OR.66X3
20	Poppet assembly	A5150
21	Diaphragm	A5151
22	Cap	A5145
23	Identification Label	A5156
24	Cap Lifting Bolt	

PRODUCT EXPLOSION

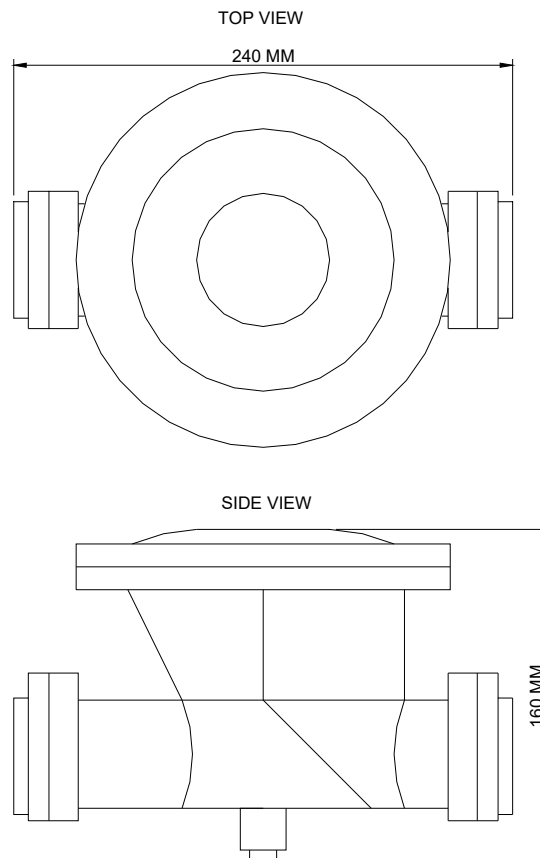


INSTALLATION DIAGRAM



N.B. - THE HYTEK PR PRESSURE REGULATING VALVE WILL OPERATE CORRECTLY IN ANY ORIENTATION

EXTERNAL DIMENSIONS



TROUBLE SHOOTING GUIDE

FAULT	CAUSE	ACTION
Pump is unable to dispense fuel	Filter (item 16) is blocked	Clean filter
	Adjuster screw (item 13) is turned fully in	Remove sealing screw (item 15) Turn adjuster screw anti-clockwise until optimum flow is achieved. Replace sealing screw.
	Gate valve is closed	Open gate valve
	Pipeline needs priming	Prime pipeline
	Breather (item 3) is blocked	Remove breather, clean and replace
	Diaphragm (item 21) is punctured	Replace diaphragm
	Poppet (item 20) is jammed	Remove poppet assembly and inspect. Replace if necessary
Fuel can be dispensed when pump is switched off	PR is fitted the wrong way round	Disconnect PR, turn and re-connect
	The poppet seal could be damaged	Replace poppet
	The valve O-ring (item 19) could be damaged	Replace O-ring
	Poppet (item 20) could be jammed open	Remove poppet assembly and inspect. Replace if necessary
PR is leaking at its inlet/outlet flanges	O-ring seals (item 9) are damaged	Replace O-ring seals
	Pipes are not correctly aligned	Align pipe work
Fuel flowing from pump air separator outlet port when pump is running	Adjuster screw (item 13) is not turned in far enough	Remove sealing screw (item 15) turn adjuster screw clockwise until fuel flow from air separator outlet stops. Replace sealing screw
PR "chatters" when fuel is drawn through	An air pocket is present in the pipe work	Remove air pockets from pipe work

DECLARATION OF CONFORMITY



Company Name: **Hytek (GB) Ltd**

Address: **Delta House
Green Street
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Bishops Stortford
Hertfordshire
CM22 6DS**

Date of Issue: **6th October 2022**

Equipment Details: **Hytek PR – Pressure Regulating Valve**

Applicable Directives:
& Standards **SI 2008 1597 Supply of Machinery Safety Regulations
SI 2016 1105 Pressure Equipment Safety Regulations**

Declaration Number: **UK020 Issue 5**

On behalf of the above-named company, I declare under our sole responsibility that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives.

A handwritten signature in cursive script that reads "Clive Wellings".

Clive Wellings, Process Coordinator 6th October 2022, Bishops
Stortford, Herts

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