Honeywell
THE POWER OF CONNECTED

Home


# Potable Water Products

Pressure Reduction, Filtration, Metering, Thermal Balancing, Thermal Mixing and Pilot Operated Control Valves

# Introduction

Welcome to the Honeywell Water Controls Guide. Honeywell offers an extensive range of water controls and this guide provides a simple overview of solutions for domestic, commercial and industrial applications.

Our product portfolio includes pressure reducing valves, thermostatic mixing valves, water filters, backflow prevention devices, pilot operated valves and balancing valves.

Whether your requirement is to ensure water quality, constant supply pressure, safe temperature delivery or to save resources, Honeywell has the solution for you.

# Contents



Our range of water controls are manufactured in Mosbach Germany. The 15,000m² site comprises four production areas; a brass foundry, plastic moulding plant, body machining area and assembly and testing line.

# Pressure Reducing Valves

Pressure reducing valves protect pipework, valves and appliances from damage caused by excessive water pressure. The set pressure is maintained at a constant, even when the inlet pressure fluctuates, therefore minimizing flow noises. Reducing the pressure also reduces consumption which conserves natural resources and saves you money. You can save 27 litres per day simply by reducing the pressure from 6.0 to 4.0 bar.

| Efficient Water Consumption | | | |
|---|---|---|---|
| Water pressure | Water consumption per person per day | Water consumption per year for a four person household | Water consumption asn a percentage |
| 6.0 bar | 140 litres | 200 $m^3$ | 100% |
| 4.0 bar | 113 litres | 162 $m^3$ | 81% |
| 3.0 bar | 99 litres | 142 $m^3$ | 71% |

# D04FM


The D04FM is designed to protect household appliances against excessive supply pressures. A small compact valve that will maintain a constant water pressure irrespective of the supply pressure, which is often much higher.

## Features and Benefits

- Spring loaded, balanced seat means a constant outlet pressure regardless of fluctuating inlet pressure
- Light weight
- Simple, compact construction
- Available with pressure gauge
- 16 bar inlet pressure
- 1.5 bar to 6 bar outlet pressure

## Sizes

15mm and 22mm compression connections, 3/8", 1/2" and 3/4" BSP connections

## Accessories

M38K Pressure Gauge

# D05FT

The D05 range is designed to protect household water installations against excessive pressure from the supply and it can also be used for industrial and commercial applications.

### Features and Benefits

- Suitable for hot and cold water systems
- Spring loaded, balanced seat means a constant outlet pressure regardless of fluctuating inlet pressure
- Set pressure indicated on the set point scale
- Valve insert can be replaced
- Integral fine filter with 1mm mesh
- Light weight
- Available with pressure gauge
- Up to 16 bar inlet pressure
- 1.5 bar to 6 bar outlet pressure

### Sizes

15mm and 22mm compression connections, 1/2", 3/4" and 1" BSP connections

### Accessories for D05FT

M38T Pressure Gauge

ZR06K Double socket wrench

# D06F


Designed to protect domestic, commercial and industrial applications from excessive pressure, the D06F range enables excellent product performance, reliability and servicing capabilities.

### Features and Benefits

- Spring loaded, balanced seat means a constant outlet pressure regardless of fluctuating inlet pressure
- Set pressure indicated on the set point scale
- Integral fine filter with 0.16mm mesh
- Available with pressure gauge
- Up to 25 bar inlet pressure
- 1.5 bar to 6 bar outlet pressure
- Class 1 acoustic valve ensures quiet operation
- High quality synthetic valve insert ensures resistance to scaling and cavitation

### Sizes

15mm and 22mm compression connections, 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" BSP connections

# D06FI

### Features and Benefits

- Spring loaded, balanced seat means a constant outlet pressure regardless of fluctuating inlet pressure
- Available with pressure gauge
- Integral stainless fine filter with 0.16mm mesh
- Up to 25 bar inlet pressure
- 1.5 bar to 6 bar outlet pressure
- Stainless steel variant
- Class 1 acoustic valve ensures quiet operation

### Sizes

1/2", 3/4", 1, 1 1/4", 1 1/2" and 2" BSP connections

### Accessories for D06FI; D06FN & D06FH

M07M Pressure Gauge

ZR06K Double socket wrench

# D06FN *(Low pressure applications)*

# D06FH *(High pressure applications)*


### Features and Benefits

- Spring loaded, balanced seat means a constant outlet pressure regardless of fluctuating inlet pressure
- Integral fine filter with 0.16mm mesh
- Available with pressure gauge
- Up to 25 bar inlet pressure
- D06FN outlet pressure 0.5 bar to 2 bar; D06FH outlet pressure 1,5 bar to 12 bar

### Sizes

1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" BSP connections

# D15S

The D15S range of flanged pressure reducing valves can be used flanged pressure reducing valve (PRV) can be used to protect large domestic, commercial and industrial applications against excessive pressure giving accurate pressure control for a variety of applications including water, compressed air and nitrogen.

### Features and Benefits

- Inlet pressure balancing; the set outlet pressure is unaffected by inlet fluctuations
- Inlet pressure up to 16 bar
- Outlet pressure: 1.5 – 7.5 bar
- Powder coating gives high corrosion protection
- Simple maintenance; access from above

### Sizes

DN50, DN65, DN80, DN100, DN150 and DN200

### Accessories

M39M Pressure Gauge

# D15SN

*(Low pressure applications)*

### Features and Benefits

- Designed for low pressure applications
- Inlet pressure balancing; the set outlet pressure is unaffected by inlet fluctuations
- Inlet pressure up to 16 bar
- Outlet pressure 0.5-2.0 bar
- Powder coating gives high corrosion protection

### Sizes

DN50, DN65, DN80 and DN100



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# D15SH

### Features and Benefits

- Inlet pressure balancing; no influence on outlet pressure by fluctuating inlet pressure
- Patented two cartridge solution for easy assembly and maintenance - insert fits all nominal widths
- Stainless steel cartridge and PA coating for high corrosion resistance
- The adjustment spring is not in contact with the drinking water
- Max. inlet pressure: 16 bar / 25 bar
- Outlet pressure: 1.5 - 12 bar / 2 - 12 bar
- With inlet and outlet pressure gauge
- Accelerated life test with over 400,000 cycles

### Sizes

DN50

### Accessories

M39M Pressure Gauge for both D15SH and D15SI

# D15SI

### Features and Benefits

- Patented cartridge solution for easy assembly and maintenance
- One cartridge insert fits all nominal widths
- All metal parts with contact to the flow made of stainless steel
- Max. inlet pressure: 16 bar
- Outlet pressure: 1.5 - 6.5 bar
- Accelerated life test with over 400,000 cycles

### Sizes

DN65 - DN100

# EXF125-A

An extension flange to increase the connection sizes the control valves are used for.

### Features and Benefits

- Extension flange DN125 adapter flanges DN100 to DN125

**Size** Ductile iron, PN16 acc. ISO 7005-2 and EN1092-2. Overall length with adapter flanges (without bolts). DN125 L=416mm, including bolts and nuts.

# Thermostatic Mixing Valves

Thermostatic Mixing Valves (TMVs) are designed to control water temperatures at a safe level for showering, bathing and hand washing.

The valves work by blending hot and cold water to preset temperatures by means of a thermally sensitive element. The mechanism can automatically compensate for variations in supply pressures or temperatures and in the event of cold water failure the TMV will automatically shut down the flow to prevent discharge of dangerously hot water.

# TMV2 and TMV3 explained

TMV2 and TMV3 approval is administered by Buildcert which is an independent third party that certifi es thermostatic mixing valves against the requirements of the NHS Estates Model Engineering Specifi cation D 08 (TMV3 approval), and the requirements of BS EN 1111 and 1287 (TMV2 approval).

## TMV2

Within the domestic market there is a similar risk to all members of a household from scalding especially for the younger and older residents. Buildcert developed the TMV2 approval that uses BS EN 1111 and 1287 to set the minimum performance levels of the valves.

## TMV3

The NHS Estates document D 08 is primarily for thermostatic mixing valves installed within healthcare properties that supply hot water to a point of use that is used by vulnerable members of the NHS facility. The performance requirements of D 08 mean that the thermostatic mixing valve must be maintained and monitored on a regular basis. TMV3 valves are considered to provide a higher level of protection against scalding.

## Building Regulations

Legislation has been in place in Scotland since May 2006 with a requirement to fit thermostatic mixing valves as standard to baths and bidets in all new build domestic properties.

In England and Wales, Building Regulations have now recognised the need for thermostatically controlled mixing valves and in 2010 Part G was revised to include a section on prevention of scalding. This new revision applies to baths in all new build, extensions of buildings or buildings with a material change of use. The local authority or approved building inspector can provide further advice.

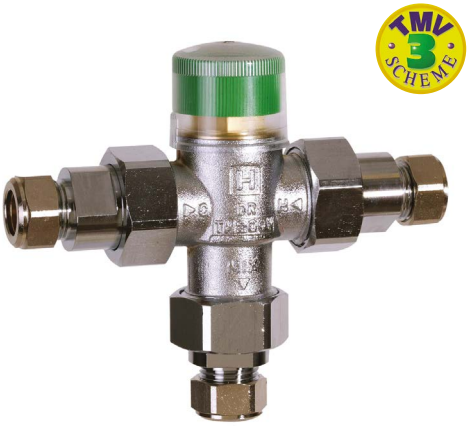
## Part G

Building Regulation Part G3 considers hot water supply and systems. In particular section 3.65 covers prevention of scalding:
The hot water supply temperature to a bath should be limited to a maximum of 48°C by use of an in-line blending valve or other appropriate temperature control device, with a maximum temperature stop and a suitable arrangement of pipework.

## Duty of Care

It is the responsibility of the person in charge of the property to ensure all necessary steps are taken to prevent people being injured. On all domestic, commercial or institutional properties a risk assessment should be carried out to establish how susceptible people are to the dangers of scalding. If a person has taken all reasonable steps to ensure safety of those people living and working in the environment, they will have discharged their duty of care.

# TM200VP




**The Honeywell TM200VP is a TMV3 scheme**
approved thermostatic mixing valve, suitable for controlling point of use hot water temperatures in high risk applications such as hospitals, healthcare premises and nurseries.

**Features and Benefits**

- Proven thermal element for accurate hot water temperature control
- Calibrated setting dial for easy hot water temperature setting
- Scald protection, automatically shuts off if cold water fails
- Inner components are made of scale resistant materials

**Sizes**
15mm and 22mm compression connections

# A guide to where legislation requires Thermostatic Mixing Valves (TMV's) to be fitted and which Honeywell mixing valves to use in each circumstance.

| Type of Environment | Appliance | Is a TMV required by legistation or authoritative guidance? | Is a TMV recommendation by legislation or authoritative? | Is a TMV suggested best practice? | Valve type | Accreditation | Reference documents *(see below)* |
|---|---|---|---|---|---|---|---|
| Private dwelling | Bath<br>Basin<br>Shower | | | yes<br>yes<br>yes | | TMV2<br>TMV2<br>TMV2 | |
| Housing association dwelling | Bath<br>Basin<br>Shower | | yes | <br>yes<br>yes | | TMV2<br>TMV2<br>TMV2 | Housing Corp Standard (1.2.1.33a) |
| Housing association dwelling for (1.2.1.58 and the elderly) | Bath<br>Basin<br>Shower | yes<br>yes<br>yes | | | | TMV2<br>TMV2<br>TMV2 | Housing Corp Standard (1.2.1.58) and (1.2.1.59) |
| Hotel | Bath<br>Basin<br>Shower | | | yes<br>yes<br>yes | | TMV2<br>TMV2<br>TMV2 | Guidance to the Water Regulations (G18.5) |
| NHS nursing home | Bath<br>Basin<br>Shower | | yes<br>yes<br>yes | | TM200VP -3/4E 15mm compression fittings<br>TM200VP -3/4H 22mm compression fittings | TMV3<br>TMV3<br>TMV3<br>TMV3<br>TMV3 | NHS Health Guidance Note, Care Standards Act 2000, Care Homes Regulation 2001, D08 |
| Private nursing home | Bath<br>Basin<br>Shower | | yes<br>yes<br>yes | | TM200VP -3/4E 15mm compression fittings<br>TM200VP -3/4H 22mm compression fittings | TMV3<br>TMV3<br>TMV3 | Guidance to the Water Regulations (G18.6), Care Standards Act 2000, Care Homes Regulations 2001, HSE Care Homes Guidance |
| Young persons' care home | Bath<br>Basin<br>Shower | yes<br>yes<br>yes | | | TM200VP -3/4E 15mm compression fittings<br>TM200VP -3/4H 22mm compression fittings | TMV3<br>TMV3<br>TMV3 | DoH National Minimum Standards Children's homes Regulations, Care Standards Act 2000, Care Homes Regulations 2001, HSE Care Homes Guidance |
| Schools, including nursery | Bath<br>Basin<br>Shower | yes<br>yes<br>yes, but 43°C | yes | | | TMV2<br>TMV2<br>TMV2 | Building Bulletin 87, 2nd edition, The School Premises Regulations/ National minimum care Standards Section 25.8 |
| Schools for the severely disabled including nursery | Bath<br>Basin<br>Shower | yes<br>yes<br>yes, but 43°C | yes | | TM200VP -3/4E 15mm compression fittings<br>TM200VP -3/4H 22mm compression fittings | TMV3<br>TMV3<br>TMV3 | Building Bulletin 87, 2nd edition, The School Premises Regulations, If residential, Care Standards Act |
| NHS hospital | Bath<br>Basin<br>Shower | yes<br>yes<br>yes | | | TM200VP -3/4E 15mm compression fittings<br>TM200VP -3/4H 22mm compression fittings | TMV3<br>TMV3<br>TMV3 | NHS Health Guidance Note, D08 |
| Private hospital | Bath<br>Basin<br>Shower | yes<br>yes<br>yes | | | TM200VP -3/4E 15mm compression fittings<br>TM200VP -3/4H 22mm compression fittings | TMV3<br>TMV3<br>TMV3 | Guidance to the Water Regulations (G18.6) |


DoH National Minimum Standards Children's homes Regulations Department of Health, National Minimum Standards Children's homes Regulations.

Housing Corp Standard Housing Corporation, Scheme Development Standards, 5th Edition, Housing Corporation 2003.

D08 Model engineering specifications D08 Thermostatic mixing Valves (healthcare premises), NHS Estates, 1997.

National minimum care Standards Section 25.8

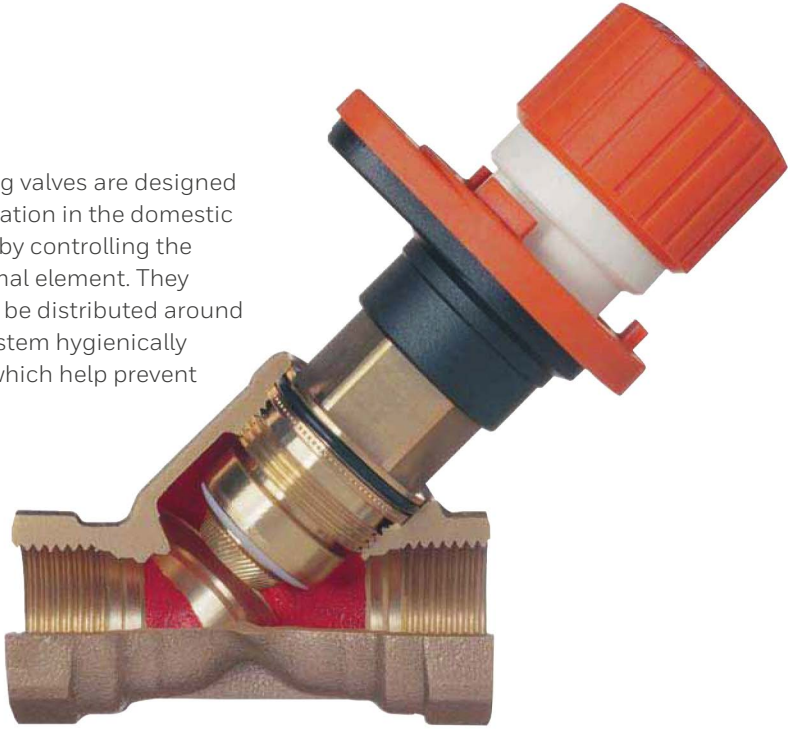
Building Bulletin 87 2nd edition School Building and Design Unit Department
for Education and Skills. Building Bulleting 87 2nd edition.

NHS Health Guidance Note National Health Service Guidance note. Safe hot water and surface temperatures.

Guidance to the Water Regulations Department for Environment, Food & Rural Affairs, Water Supply (Water Fittings) Regulations
1999 Guidance Document relating to Schedule 1: Fluid Categories and Schedule 2: Requirements for Water Fittings. DEFRA 1999, London.

# Thermal Balancing Valves

Thermal Balancing valves are designed to maintain circulation in the domestic hot water system by controlling the flow using a thermal element. They allow hot water to be distributed around the circulation system hygienically at temperatures which help prevent Legionella.



# Kombi 4



Handwheel with display of selected setting


Optional thermostatic actuator keeps the circulation temperature constant to the exact degree. Retrofittable without interruption


Draining adaptor is mounted retrospectively and can be unscrewed after the draining process


Optional thermometer can be used with or without the thermostatic control attachment

The Kombi 4 is a thermostatic balancing valve for hot water circulation systems. Installed in the return pipework and equipped with a thermal actuator the Kombi 4 will control return water temperatures and will automatically support thermal disinfection.

## Features and Benefits

- Optional thermostatic actuator controls the return water temperature and allows a thermal disinfection cycle
- A combined throttle and shut off facility means no need for additional isolation valves
- A separate drain adapter can be used as a drain off point
- The additional thermometer can clearly display the circulation temperature

## Sizes

1/2", 3/4", 1", 1 1/4" and 1 1/2" BSP connections with various fitting options

# Backflow Preventers

Backflow prevention devices ensure that contaminated fluid does not flow back into the water supply line. Type BA devices are commonly known as Reduced Pressure Zone (RPZ) Valves and prevent backflow of contaminated fluid up to category 4 risks. Fluids are risk categorised from Fluid Category 1 to 5 with the following definitions provided:

**Fluid Category 1**
Wholesome water supplied by a water undertaker and complying with the requirements of regulations made under section 67 of the Water Industry Act 1991

**Fluid Category 2**
Water in fluid category 1 whose aesthetic quality is impaired owing to:

a) A change in its temperature, or
b) The presence of substances or organisms causing a change in its taste, odour or appearance, including water in a hot water distribution system

**Fluid Category 3**
Fluid which represents a slight health hazard because of the concentration of substances of low toxicity, including any fluid which contains:

a) Ethylene glycol, copper sulphate solution or similar chemical additives, or
b) Sodium hypochlorite (common disinfectants)

**Fluid Category 4**
Fluid which represents a significant health hazard because of the concentration of toxic substances, including any fluid which contains:

a) Chemical, carcinogenic substances or pesticides (including insecticides and herbicides), or
b) Environmental organisms of potential health significance

**Fluid Category 5**
Fluid representing a serious health hazard because of the concentration of pathogenic organisms, radioactive or very toxic substances, including any fluid which contains:

a) Faecal material or other human waste,
b) Butchery or other animal waste, or
c) Pathogens from any other source

RPZ valves may be used for all fluid categories except category 5 and there are many applications for RPZ valves including breweries, car washing and degreasing plants, dairies, commercial laundries and commercial dishwashers. All proposed installations of backflow prevention devices must be submitted to the local water supplier for approval.

# BA295S

The BA295S and BA195 are backflow preventers suitable for protection against back pressure, backflow and back siphonage for fluids up to category 4.

**Features and Benefits**

- Compact construction
- Combined check valve and discharge valve cartridge assembly – easier servicing and maintenance
- Maximum operating temperature 60°C
- DZR brass housing
- Integral inlet strainer
- Colour coded test ports
- High flow rate
- Triple security – two check valves and a discharge valve separate the backflow preventer into three pressure zones
- BA295i variant – stainless steel body

**Sizes**

1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" BSP connections

**Accessories Check Valve**

and Cartridges - see page 29

# BA195

**Features and Benefits**

- Compact construction – suitable for areas where space is limited
- Combined check valve and discharge valve cartridge assembly – easier servicing and maintenance
- Maximum operating temperature 65°C
- DZR brass housing
- Integral inlet strainer
- Triple security – two check valves and a discharge valve separate the backflow preventer into three pressure zones

**Sizes**

3/8" BSP connections

# BA298I-F

The BA298I-F is a stainless steel flanged backflow preventer providing increased corrosion protection and suitable for protection against back pressure, backflow and back siphonage for fluids up to category 4. It is particularly suitable for industrial and commercial applications.

**Features and Benefits**

- In-line service – all components serviceable without removal from pipework
- Complete stainless steel, offers maximum corrosion protection
- Maximum operating temperature 60°C

**Sizes**

DN65, DN80, DN100 and DN150

# BA300

The BA300 is a flanged backflow preventer suitable for protection against back pressure, backflow and back siphonage for fluids up to category 4.

**Features and Benefits**

- Compact construction
- Interchangeable check valves allows for easier servicing and maintenance
- One discharge valve required for all sizes
- Triple security – two check valves and a discharge valve separate the backflow preventer into three pressure zones
- Maximum operating temperature 65°C

**Sizes**

DN65, DN80, DN100, DN150 and DN200

**Accessories**

Inlet Check Valves, Outlet Check Valves, Discharge Valve, Pressure Control Line and Seal Sets - see page 29

*Inlet Check Valve*

*Outlet Check Valve*

For details of the **BA Verifiable Reduced Pressure Zone Device Testing Training Course** see page 28

# CA295

The CA295 is a backflow preventer suitable for protection against back pressure and back siphonage for fluids up to category 3. Typical applications for CA295 include mains water coolers and drinks vending machines.

**Features and Benefits**

- High quality synthetic material inner components
- Dezincification-resistant brass housing
- Integral strainer on the inlet side
- Based on tried and tested cartridge principle with no diaphragm
- Installation: horizontal with discharge valve downwards
- Maximum operating temperature 65°C

**Sizes**

1/2" to 3/4" BSP connections

## TK295 Electronic BA Testing Kit

## TKA 295 Analogue BA Testing Kit

# Water Meters

Honeywell manufactures and supplies a range of water metering solutions, which includes high accuracy mechanical meters, fully electronic water meters and Smart metering solutions for residential, commercial and industrial sectors.

## V100 Volumetric Cold Water Meter

The V100 is a volumetric meter designed for measuring domestic flows of cold potable water for revenue billing. The V100's unique design offers an unparalleled blend of accuracy, durability and security. With over 50 million units in service, in over 100 countries, the product offers high accuracy, long-life, low maintenance and tamper-proof operation, as well as the ability to provide valuable management information via a probe pulse unit upgrade.

### Features and Benefits

- Optimum accuracy and performance at all times, in any position
- Revolutionary grooved piston for improved durability and performance
- Durable tamper-proof construction
- Full range of sizes from 15mm to 40mm
- Water temperatures up to 50°C
- Maximum working pressure of 16 bar
- Pulse output available providing access to management information
- T110 LRT Pulse Unit available – 5 metre flying lead

### Sizes

Available in sizes from 15mm to 40mm.

## V200 & V210 Volumetric Cold Water Meter

V200 and V210 meters are designed to give long, trouble-free working life, with excellent features such as the proven grooved piston design. As the demand for remote metering increases, the V200/V210 offers a range of communication options for every installation. Incorporating an inductive pulse target which can be read by a tamper-proof, bi-directional inductive pulse transmitter, the V200/V210 is easily integrated into a remote reading system by simply adding the relevant module.

### Features and Benefits

- Simple link to radio technology
- Approval to European Directive 2004/22/EC
- Detection of extremely low flows
- Precision calibrated assembly method
- Maximised revenue collection by innovative design
- Volumetric design permits optimum performance in horizontal, vertical or inclined pipelines
- Proven grooved piston for excellent durability and reduced blockages
- Hermetically sealed copper can register with glass lens, providing conformity to IP68
- Inductive Pulse Unit (PR6) available – 2 metre flying lead

### Sizes

Available in sizes from 15mm to 40mm

# H4000 Woltmann Cold Water Meter

The H4000 is a Woltmann-type meter designed for measuring bulk flows of cold potable water for revenue billing in commercial or industrial applications and distribution system monitoring. Fully compatible with a range of intelligent meter reading systems, H4000 can provide even more vital management information to assist with effective distribution management, reduce water losses from leakage and improve customer service. The H4000 is manufactured from the highest quality materials for maximum resistance to wear and corrosion. Meter body and cover are epoxy powder coated for protection in all environments. Thrust pads and stub spindles are manufactured in tungsten carbide and jewelled rotor bearings are used for maximum wear life. All wetted materials are UK WRAS approved against health risk.

### Features and Benefits

- Inductive register for improved output performance and security
- Extended low and high flow performance
- Suitable for forward and reverse flow metering
- Robust shroud and copper can register for long-life and clear readability
- Longer wear life for optimum accuracy
- Inductive Pulse Unit (PR7) available – 5 metre flying lead

### Size

Available in sizes from 50mm to 300mm

# PR6 & PR7 Pulse Meter


For Honeywell water meters with a communication interface.

### Features and Benefits

- Pulse modules with two outputs
- EMERIS radio module
- M-Bus module acc. to EN13757
- Integrated forward and backflow detection
- Non-reactive and tamper-resistant

The PR6 Pulse Meter is designed to be used with the V200 & V210 range of volumetric Meters. The PR7 Pulse meters are designed for the H4000 Bulk Meters.

### Size

CH1P 1 Litre/pulse– CH2P 10 Litres pulse–PR7
CH1P 10 Litre/pulse– CH2P 10 Litres pulse–PR7
CH1P 1 Litre/pulse– CH2P 10 Litres pulse–PR7

# Water Filters

Honeywell water filters use a patented reverse rinsing system to ensure clean water is supplied at all times to an appliance or process. Dirt particles or foreign bodies are filtered out by a fine stainless steel mesh filter which prevents pitting corrosion of pipework and ensures performance of the system.

Water filter combinations which combine water filtration with pressure control are available along with accessories which can automate the filters.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# F76S

The F76S fine filter and F78TS-F flanged fine filters are used to prevent the ingress of dirt particles for industrial and commercial applications. The patented reverse rinse mechanism ensures that flow is available at all times, even during the back wash process.

**Features and Benefits**

- Double spin technology for connection sizes ½" – 2"
- Filter and filter bowl can be replaced
- Available with a pressure gauge
- Filtered water even during back wash cycle
- Construction: Brass construction PN16
- Mesh sizes: 20µm to 500µm
- Z11S automatic actuator can be fitted for timed back wash
- DDS76 differential pressure switch can be fitted for fully automated operation

**Sizes**

1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" screwed BSP connections

# F78TS-F

**Features and Benefits**

- Filtered water even during reverse rinsing
- Easy to maintain and service
- Construction: Housing and filter bowl made of ductile cast iron coated with Polyamide
- Mesh sizes: 20µm to 200µm
- Z11AS automatic actuator can be fitted for timed back wash
- DDS76 differential pressure switch can be timed for fully automated operation

**Sizes**

DN65, DN80, DN100, DN125

# DDS76


*DDS76 differential pressure switch*

# Z11S

# Z11AS

*Z11S/Z11AS automatic actuators*

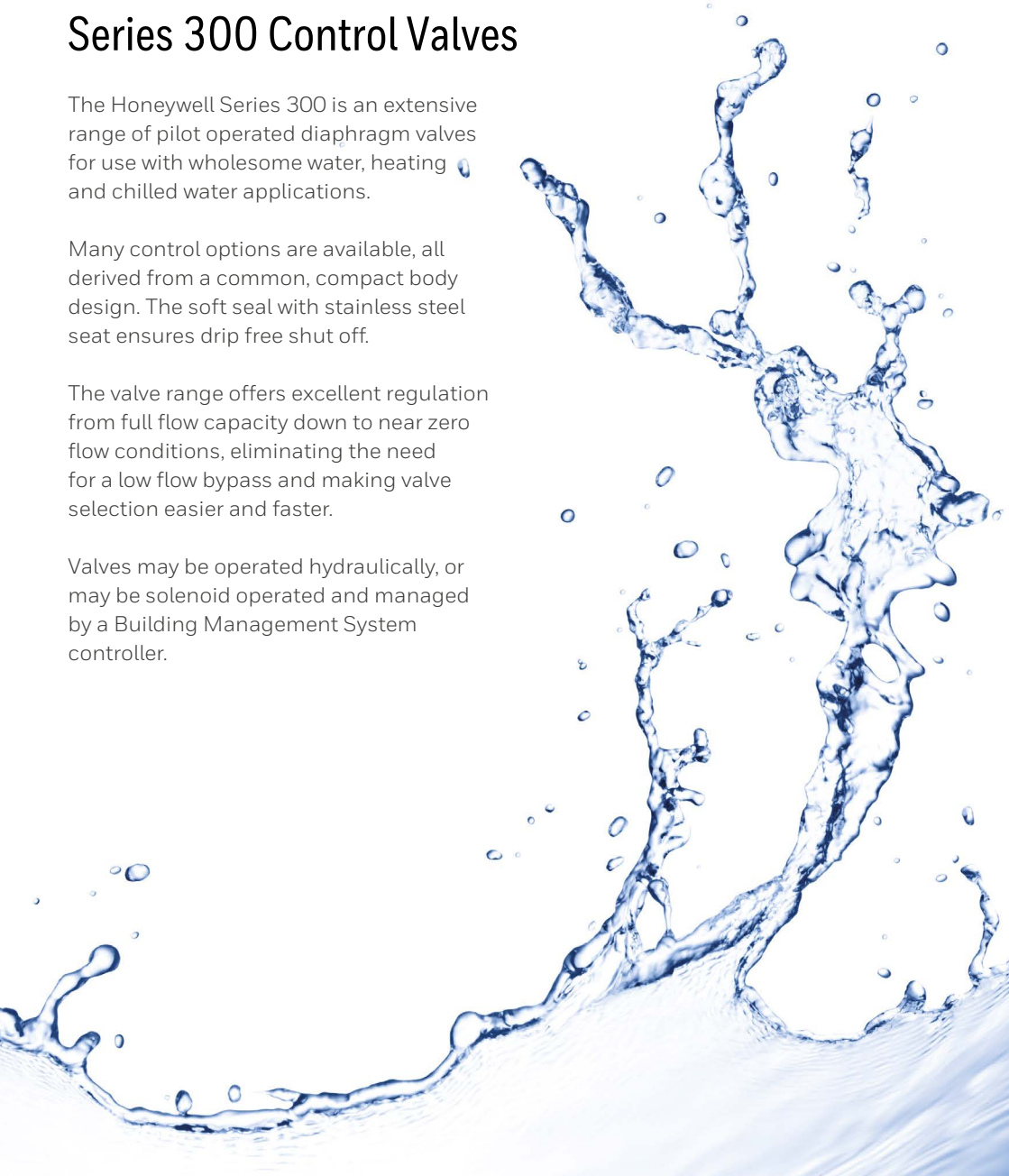
# Series 300 Control Valves

The Honeywell Series 300 is an extensive range of pilot operated diaphragm valves for use with wholesome water, heating and chilled water applications.

Many control options are available, all derived from a common, compact body design. The soft seal with stainless steel seat ensures drip free shut off.

The valve range offers excellent regulation from full flow capacity down to near zero flow conditions, eliminating the need for a low flow bypass and making valve selection easier and faster.

Valves may be operated hydraulically, or may be solenoid operated and managed by a Building Management System controller.





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# DR300

A pressure regulating valve which maintains a constant outlet pressure regardless of inlet pressure fluctuations.

**Features and Benefits**

- High flow capacity
- Outlet pressure up to 12 bar
- Pilot control circuit with integral rinsable filter insert
- PN 16 standard. PN 25 on request
- Maximum operating temperature 80°C

**Sizes**

DN50 – DN450

# SV300

Protects downstream parts of a system from excessive pressure with a quick relief safety valve.

**Features and Benefits**

- Very fast opening protects system from over pressure
- High flow capacity
- Relief pressure setting up to 12 bar
- Pilot control circuit with integral rinsable filter insert
- PN 16 standard. PN 25 on request
- Maximum operating temperature 80°C

**Sizes**

DN50 – DN450

# DH300

The set pressure of this pressure sustaining valve is held constant on the inlet side.

**Features and Benefits**

- May be used in-line or on a branch withexcess pressure
- Pilot control circuit with integral rinsable filter insert
- PN 16 standard. PN 25 on request
- Maximum operating temperature 80°C

**Sizes**

DN50 – DN450

# MV300

A magnetic remote controlled solenoid valve that opens or shuts o a system.

**Features and Benefits**

- High flow capacity
- Pilot control circuit with integral rinsable filter insert
- 24V / 230V versions
- PN 16 standard. PN 25 on request
- Maximum operating temperature 80°C

**Sizes**

DN50 – DN450

# FV300

A filling valve which uses a float to control levels in a tank.

**Features and Benefits**

- High flow capacity
- Pilot float valve to enable 'delayed fill' for water tanks
- Float valve switching differentials up to 160cm
- Hydraulic or solenoid valve operated
- PN 16 standard. PN 25 on request
- Maximum operating temperature 80°C

**Sizes**

DN50 – DN450

# PS300

The PS300 valve is used as a protection valve in pressure boosting systems to provide a water hammer free shutdown and start-up of pumps.

**Features and Benefits**

- High flow capacity
- Light weight and compact construction
- Powder coated inside and outside - Powder used is physiologically and toxicologically safe
- Integral control circuit and ball valves
- PN 16 standard. PN 25 on request
- Maximum operating temperature 80°C

**Sizes**

DN50 - DN450

# VV300

VV300 priority valves are a combination between pressure regulating and pressure limiting valves. They are used to ensure priority drinking water supply to important systems. Ancillary systems are then supplied only when there is sufficient surplus drinking water available. In addition downstream installations are protected against excess supply pressures. The compact construction makes them particularly suitable for applications where space is limited, for example in ducts. The application of priority valves prevents pressure damage. The set pressure remains constant even when the inlet pressure fluctuates greatly.

**Features and Benefits**

- High flow capacity
- High control accuracy
- Powder coated inside and outside - Powder used is physiologically and toxicologically safe
- Integral control circuit and ball valves
- Opening pressure Pilot valve CX-PS 1 - 12 bar
- Outlet pressure Pilot valve CX-PR 1 - 12 bar
- PN 16 standard. PN 25 on request
- Maximum operating temperature °C

**Sizes**

DN50 - DN450

# VR300

A flow rate regulator, also called a flow rate limiting valve, controls to a fixed flow rate, independent of fluctuating operating pressures and take-off flow rates. It prevents, for example, pumps running at too high a performance or regulates the performance of whole installations and systems.

**Features and Benefits**

- High flow capacity
- High control accuracy
- Powder coated inside and outside - Powder used is physiologically and toxicologically safe
- Integral control circuit and ball valves
- PN 16 standard. PN 25 on request
- Maximum operating temperature 80°C

**Sizes**

DN50 - DN450

# DEVELOP

*training that transforms*

Develop Training Ltd is the UK's leading technical skills training provider offering accredited training solutions to the Utilities sector.

The BA Verifiable Reduced Pressure Zone Device Testing Training Course will ensure you have the requisite skills to test RPZ valve assemblies. Details of the course are as follows:

**Course Title**
Type BA Verifiable Reduced Pressure Zone Device Testing

**Code**
WNCS11

**Duration**
3 Day Course

**Description**
The course sets out the Water Industry's requirements for the installation, commissioning and on-site compliance testing of the RPZ valve .

**Who would Benefit**
The course is designed for operatives who are either required to test RPZ valve assemblies on behalf of installers or persons who are responsible for the testing and maintenance of the RPZ valve.

**Training Coverage**

- The installation requirements of RPZ assemblies
- Methods of testing RPZs
- Identification of any corrective maintenance required
- Reporting and recording procedures
- The requirements of the Water Industry Information and Guidance document AIM

The course involves some evening work.

**Training Certification**
Successful candidates will receive a City & Guilds Certificate.

For further information on this course and other courses including:
Operation and Maintenance of TMV's
Water Fittings Regulations
Unvented Hot Water
Legionella Control

Please call **0800 876 6708**. Alternatively, visit **http://www.developtraining.co.uk/training** for further information.

# Water Products
# Product Code Selector

## Pressure Reducing Valves (pages 3-7)

**D04FM Pressure Reducing Valves**

| | |
|---|---|
| D04FM-1/2A | 1/2" BSP connections, outlet range 1.5-6.0 bar |
| D04FM-3/4A | 3/4" BSP connections, outlet range 1.5-6.0 bar |
| D04FM-1/2ZC | 15mm compression fittings, outlet range 1.5-6.0 bar |
| D04FM-3/4ZC | 22mm compression fittings, outlet range 1.5-6.0 bar |
| D04FM-3/8A | 3/8" BSP connections, outlet range 1.5-6.0 bar |
| D04FM-1/2ZGC | As D04FS-1/2ZC complete with gauge |
| D04FM-3/4ZGC | As D04FS-3/4ZC complete with gauge |
| **Accessories** | |
| M38K - A4 | Pressure gauge up to 4 bar |
| M38K - A10 | Pressure gauge up to 10 bar |
| M38K - A16 | Pressure gauge up to 16 bar |
| M38K - A25 | Pressure gauge up to 25 bar |

**D05FT Pressure Reducing Valves**

| | |
|---|---|
| D05FT-1/2AGB | 1/2" BSP Connections outlet range 1.5-6.0 bar |
| D05FT-3/4AGB | 3/4" BSP Connections outlet range 1.5-6.0 bar |
| D05FT-1AGB | 1" BSP Connections outlet range 1.5-6.0 bar |
| D05FT-1/2CGB | 15mm compression fittings, outlet range 1.5-6.0 bar |
| D05FT-3/4CGB | 22mm compression fittings, outlet range 1.5-6.0 bar |
| **Accessories** | |
| M38T-A10 | Pressure gauge up to 10 bar |
| DS05-1/2 | 1/2" insulation jacket |
| DS05-3/4 | 3/4" insulation jacket |
| DS05-1 | 1" insulation jacket |
| ZR06K | Double ring wrench |

**D06F Pressure Reducing Valves**

| | |
|---|---|
| D06F-1/2BGB | 1/2" BSP connections, outlet range 1.5-6.0 bar |
| D06F-1/2K | 15mm compression fittings, outlet range 1.5-6.0 bar |
| D06F-3/4BGB | 3/4" BSP connections, outlet range 1.5-6.0 bar |
| D06F-3/4K | 22mm compression fittings, outlet range 1.5-6.0 bar |
| D06F-1BGB | 1" BSP connections, outlet range 1.5-6.0 bar |
| D06F-11/4BGB | 11/4" BSP connections, outlet range 1.5-6.0 bar |
| D06F-11/2BGB | 11/2" BSP connections, outlet range 1.5-6.0 bar |
| D06F-2BGB | 2" BSP connections, outlet range 1.5-6.0 bar |

**D06FI Pressure Reducing Valves** *(stainless steel applications)*

| | |
|---|---|
| D06FI-1/2B | 1/2" BSP connections, outlet range 1.5-6.0 bar |
| D06FI-3/4B | 3/4" BSP connections, outlet range 1.5-6.0 bar |
| D06FI-1B | 1" BSP connections, outlet range 1.5-6.0 bar |
| D06FI-11/4B | 11/4" BSP connections, outlet range 1.5-6.0 bar |
| D06FI-11/2B | 11/2" BSP connections, outlet range 1.5-6.0 bar |
| D06FI-2B | 2" BSP connections, outlet range 1.5-6.0 bar |

**D06FH Pressure Reducing Valves** *(high pressure applications)*

| | |
|---|---|
| D06FH-1/2BGB | 1/2" outlet range 1.5-12.0 bar |
| D06FH-3/4BGB | 3/4" outlet range 1.5-12.0 bar |
| D06FH-1BGB | 1" outlet range 1.5-12.0 bar |
| D06FH-11/4BGB | 11/4" outlet range 1.5-12.0 bar |
| D06FH-11/2BGB | 11/2" outlet range 1.5-12.0 bar |
| D06FH-2BGB | 2" outlet range 1.5-12.0 bar |

**D06FN Pressure Reducing Valves** *(low pressure applications)*

| | |
|---|---|
| D06FN-1/2BGB | 1/2" outlet range 0.5-2.0 bar |
| D06FN-3/4BGB | 3/4" outlet range 0.5-2.0 bar |
| D06FN-1BGB | 1" outlet range 0.5-2.0 bar |
| D06FN-11/4BGB | 11/4" outlet range 0.5-2.0 bar |
| D06FN-11/2BGB | 11/2" outlet range 0.5-2.0 bar |
| D06FN-2BGB | 2" outlet range 0.5-2.0 bar |
| **Accessories** | |
| M07M - A4 | Pressure gauge up to 4 bar |
| M07M - A10 | Pressure gauge up to 10 bar |
| M07M - A16 | Pressure gauge up to 16 bar |
| M07M - A25 | Pressure gauge up to 25 bar |
| ZR06K | Double ring wrench |

**D15S Pressure Reducing Valves**

| | |
|---|---|
| D15S-50A | PRV PN16 DN50 outlet range 1.5-7.5 bar |
| D15S-65A | PRV PN16 DN65 outlet range 1.5-7.5 bar |
| D15S-80A | PRV PN16 DN80 outlet range 1.5-7.5 bar |
| D15S-100A | PRV PN16 DN100 outlet range 1.5-7.5 bar |
| D15S-150A | PRV PN16 DN150 outlet range 1.5-7.5 bar |
| D15S-200A | PRV PN16 DN200 outlet range 1.5-7.5 bar |
| D15SN - 50A | PRV PN16 DN50 outlet range 0.5 - 2.0 bar |
| D15SN - 65A | PRV PN16 DN65 outlet range 0.5 - 2.0 bar |
| D15SN - 80A | PRV PN16 DN80 outlet range 0.5 - 2.0 bar |
| D15SN - 100A | PRV PN16 DN100 outlet range 0.5 - 2.0 bar |
| D15SH-50A | PRV PN16 DN50 outlet range 2-12 bar |
| D15SH-50B | PRV PN25 DN50 outlet range 2-12 bar |
| D15SI-65A | PRV PN16 DN65 outlet range 1.5 - 6.5 bar |
| D15SI-80A | PRV PN16 DN80 outlet range 1.5 - 6.5 bar |
| D15SI-100A | PRV PN16 DN100 outlet range 1.5 - 6.5 bar |
| 0904120 | Valve insert complete DN65-DN100 |
| 0904139 | Valve insert complete DN150-DN200 |
| 0904122 | Stainless steel valve insert complete DN65 - DN100 |
| 0904175 | Valve insert complete DN50 |
| 0904176 | Set of seals complete DN50 |
| 0904121 | Set of seals complete DN65-DN100 |
| 0904140 | Set of seals complete DN150-DN200 |
| **Accessories** | |
| M39M-A04 | Pressure gauge up to 4 bar |
| M39M - A10 | Pressure gauge up to 10 bar |
| M39M - A16 | Pressure gauge up to 16 bar |

## Thermostatic Mixing Valves (pages 8-10)

**TM200VP TMVs**

| | |
|---|---|
| TM200VP-3/4E | 15mm, complete with check valves, TMV3 approved |
| TM200VP-3/4H | 22mm, complete with check valves, TMV3 approved |

# Water Products
# Product Code Selector

## Thermal Balancing Valves (pages 12-13)

**Kombi 4 Balancing Valves**

| | |
|---|---|
| V1810Y0015 | Shut-off and throttle valve, 1/2", internal thread |
| V1810Y0020 | Shut-off and throttle valve, 3/4", internal thread |
| V1810Y0025 | Shut-off and throttle valve, 1", internal thread |
| V1810Y0032 | Shut-off and throttle valve, 11/4", internal thread |
| V1810Y0040 | Shut-off and throttle valve, 11/2", internal thread |
| VA2400A002 | Thermal actuator for use with Kombi 4, 50-60°C |
| VA2400B002 | Thermal actuator for use with Kombi 4, 40-65°C |
| VA3400A001 | Draining Adaptor |
| TH07K | Thermometer |

## Backflow Preventers (pages 14-17)

**BA295S Backflow Preventers**

| | |
|---|---|
| BA295S-1/2AGB | RPZ 1/2" BSP |
| BA295S-3/4AGB | RPZ 3/4" BSP |
| BA295S-1AGB | RPZ 1" BSP |
| BA295S-11/4AGB | RPZ 11/4" BSP |
| BA295S-11/2AGB | RPZ 11/2" BSP |
| BA295S-2AGB | RPZ 2" BSP |
| BA295I-1/2A | RPZ 1/2" BSP in SS |
| BA295I-3/4A | RPZ 3/4" BSP in SS |
| BA295I-1A | RPZ 1" BSP in SS |
| BA295I-11/4A | RPZ 11/4" BSP in SS |
| BA295I-11/2A | RPZ 11/2" BSP in SS |
| BA295I-2A | RPZ 2" BSP in SS |

**Accessories**

| | |
|---|---|
| 0904141 | Cartridge insert complete 1/2" - 3/4" |
| 0904142 | Cartridge insert complete 1" - 11/4" |
| 0904143 | Cartridge insert complete 11/2" - 2" |
| 0904144 | Check valve insert complete 1/2" -3/4" |
| 0904145 | Check valve insert complete 1" |
| 0904146 | Check valve insert complete 11/4" |
| 0904147 | Check valve insert complete 11/2" |
| 0904148 | Check valve insert complete 2" |

**BA195 Backflow Preventer**

| | |
|---|---|
| BA195-3/8E | Mini-backflow Preventer 3/8" |

**BA298I-F Backflow Preventers**

| | |
|---|---|
| BA298I-65FA | Flanged RPZ - DN65 |
| BA298I-80FA | Flanged RPZ - DN80 |
| BA298I-100FA | Flanged RPZ - DN100 |
| BA298I-150FA | Flanged RPZ - DN150 |

**BA Valve Test Kits**

| | |
|---|---|
| TKA295 | Analogue Test Kit for BA Valves |
| TK295 | Electronic Test Kit for BA Valves |

**BA300 Backflow Preventers**

| | |
|---|---|
| BA300-65A | Flanged RPZ - DN65 |
| BA300-80A | Flanged RPZ - DN80 |
| BA300-100A | Flanged RPZ - DN100 |
| BA300-150A | Flanged RPZ - DN150 |
| BA300-200A | Flanged RPZ - DN200 |

**Accessories**

| | |
|---|---|
| 0904052 | Inlet Check Valve DN65 |
| 0904053 | Inlet Check Valve DN80 |
| 0904054 | Inlet Check Valve DN100 |
| 0904055 | Inlet Check Valve DN150 |
| 0904056 | Inlet Check Valve DN200 |
| 0904057 | Outlet Check Valve DN65 |
| 0904058 | Outlet Check Valve DN80 |
| 0904059 | Outlet Check Valve DN100 |
| 0904060 | Outlet Check Valve DN150 |
| 0904061 | Outlet Check Valve DN200 |
| 0904062 | Discharge Valve DN65-200 |
| 0904063 | Pressure Control Line DN65 |
| 0904064 | Pressure Control Line DN80 |
| 0904065 | Pressure Control Line DN100 |
| 0904066 | Pressure Control Line DN150 |
| 0904067 | Pressure Control Line DN200 |
| 0904068 | Seal Set DN65 |
| 0904069 | Seal Set DN80 |
| 0904070 | Seal Set DN100 |
| 0904071 | Seal Set DN150 |
| 0904072 | Seal Set DN200 |

**CA295 Backflow Preventer**

| | |
|---|---|
| CA295-1/2A | CA Device 1/2" |
| CA295-3/4A | CA Device 3/4" |

## Cold Water Meters (pages 18-19)

**V100 Volumetric Cold Water Meter**

| | |
|---|---|
| LUJTA4996 | 15 mm Q3 2.5 R160 MID Meter |
| LUJTA4997 | 20 mm Q3 4.0 R160 MID Meter |
| LUJTA4998 | 25mm Q3 6.3 R200 MID Meter |
| LUJTA4999 | 30mm Q3 10 R160 MID Meter |
| LUJTA5000 | 40mm Q3 16 R160 MID Meter |
| LUJTA6002 | T110 (V100/PSMT) LRT Pulse Unit |

**V200 & V210 Volumetric Cold Water Meter**

| | |
|---|---|
| LUQTM4106 | 15mm V210P Q3 2.5 R400 MID Meter |
| LUQTM4520 | 20mm V210 Q3 4.0 R250 MID Meter |
| LUQTD4119 | 25 mm V210 Q3 4.0 R250 MID Meter |
| LUSTM4200 | 15mm V200P Q3 2.5 R400 MID Meter |
| LUSTC5303 | 20mm V200 Q3 4.0 R250 MID Meter |

# Water Products
# Product Code Selector

**V200 & V210 Volumetric Cold Water Meter** *continued*

| | |
|---|---|
| LUSTM4251 | 15mmV200P Q3 2.5 R400 MID Meter |
| LUSTM4333 | 20mmV200 Q3 4.0 R315 MID Meter |
| LUSTD5607 | 25mmV200 Q3 6.3 R160 MID Meter |
| LUSTF5213 | 30mmV200 Q3 10.0 R160 MID Meter |
| LUSTM5811 | 40mmV200 Q3 16.0 R160 MID Meter |

**H4000 Woltmann Cold Water Meter**

| | |
|---|---|
| LUPPB4854 | 50mm H4000 MID Cold Water Meter |
| LUPPC4855 | 65mmH4000 MID Cold Water Meter |
| LUPPD4854 | 80mmH4000 MID Cold Water Meter |
| LUPPE4854 | 100mm H4000 MID Cold Water Meter |
| LUPPG4854 | 150mm H4000 MID Cold Water Meter |
| LUPPH4854 | 200mm H4000 MID Cold Water Meter |
| LUPPJ4854 | 250mm H4000 MID Cold Water Meter |
| LUPPK4854 | 300mm H4000 MID Cold Water Meter |

**Indicative Pulse Unit** (page 19)

| | |
|---|---|
| LU2925M1221 | PR6 1:1 Inductive Pulse Unit |
| LU2925M1222 | PR7 10:10 Inductive Pulse Unit |
| LU2925M1224 | PR7 1:10 Inductive Pulse Unit |

**M-Bus module** (page 19)

| | |
|---|---|
| LU2925M1268 | PR6M M-Bus module |
| LU2925M1269 | PR7M M-Bus module |

**F76S Reverse Rinse Filters** *(standard temp up to 40°C)*

| | |
|---|---|
| F76S-1/2AA | 1/2" BSP 100 Micron mesh |
| F76S-1/2AB | 1/2" BSP 20 Micron mesh |
| F76S-1/2AC | 1/2" BSP 50 Micron mesh |
| F76S-1/2AD | 1/2" BSP 200 Micron mesh |
| F76S-1/2AE | 1/2" BSP 300 Micron mesh |
| F76S-1/2AF | 1/2" BSP 500 Micron mesh |
| F76S-1/2AAM | 1/2" BSP 100 Micron mesh up to 70°C |
| F76S-3/4AA | 3/4" BSP 100 Micron mesh |
| F76S-3/4AB | 3/4" BSP 20 Micron mesh |
| F76S-3/4AC | 3/4" BSP 50 Micron mesh |
| F76S-3/4AD | 3/4" BSP 200 Micron mesh |
| F76S-3/4AE | 3/4" BSP 300 Micron mesh |
| F76S-3/4AF | 3/4" BSP 500 Micron mesh |
| F76S-3/4AAM | 3/4" BSP 100 Micron mesh up to 70°C |
| F76S-1AA | 1" BSP 100 Micron mesh |
| F76S-1AB | 1" BSP 20 Micron mesh |
| F76S-1AC | 1" BSP 50 Micron mesh |
| F76S-1AD | 1" BSP 200 Micron mesh |

## Water Filters (pages 21-22)

**F76S Reverse Rinse Filters** *(standard temp up to 40°C)*

| | |
|---|---|
| F76S-1AE | 1" BSP 300 Micron mesh |
| F76S-1AF | 1" BSP 500 Micron mesh |
| F76S-1AAM | 1" BSP 100 Micron mesh up to 70°C |
| F76S-11/4AA | 11/4" BSP 100 Micron mesh |
| F76S-11/4AB | 11/4" BSP 20 Micron mesh |
| F76S-11/4AC | 11/4" BSP 50 Micron mesh |
| F76S-11/4AD | 11/4" BSP 200 Micron mesh |
| F76S-11/4AE | 11/4" BSP 300 Micron mesh |
| F76S-11/4AF | 11/4" BSP 500 Micron mesh |
| F76S-11/4AAM | 11/4" BSP 100 Micron mesh up to 70°C |
| F76S-11/2AA | 11/2" BSP 100 Micron mesh |
| F76S-11/2AB | 11/2" BSP 20 Micron mesh |
| F76S-11/2AC | 11/2" BSP 50 Micron mesh |
| F76S-11/2AD | 11/2" BSP 200 Micron mesh |
| F76S-11/2AE | 11/2" BSP 300 Micron mesh |
| F76S-11/2AF | 11/2" BSP 500 Micron mesh |
| F76S-11/2AAM | 11/2" BSP 100 Micron mesh up to 70°C |
| F76S-2AA | 2" BSP 100 Micron mesh |
| F76S-2AB | 2" BSP Micron mesh |
| F76S-2AC | 2" BSP 50 Micron mesh |
| F76S-2AD | 2" BSP 200 Micron mesh |
| F76S-2AE | 2" BSP 300 Micron mesh |
| F76S-2AF | 2" BSP 500 Micron mesh |
| F76S-2AAM | 2" BSP 100 Micron mesh up to 70°C |
| DDS76-1 | Differential Pressure Switch 1" + 11/4" |
| DDS76-1/2 | Differential Pressure Switch 1/2" + 3/4" |
| DDS76-11/2 | Differential Pressure Switch 11/2" + 2" |
| Z11S-A | Automatic Actuator 230v, 50/60hz |
| Z11S-B | Automatic Actuator 24v, 50/60hz |

**F78TS-F Flanged Reverse Rinse Filters**

| | |
|---|---|
| F78TS-65FA | DN65 100 Micron mesh |
| F78TS-65FB | DN65 20 Micron mesh |
| F78TS-65FC | DN65 50 Micron mesh |
| F78TS-65FD | DN65 200 Micron mesh |
| F78TS-80FA | DN80 100 Micron mesh |
| F78TS-80FB | DN80 20 Micron mesh |
| F78TS-80FC | DN80 50 Micron mesh |
| F78TS-80FD | DN80 200 Micron mesh |
| F78TS-100FA | DN100 100 Micron mesh |
| F78TS-100FB | DN100 20 Micron mesh |
| F78TS-100FC | DN100 50 Micron mesh |
| F78TS-100FD | DN100 200 Micron mesh |
| DDS76-1 | Differential Pressure Switch |
| Z11AS-1A | Automatic Actuator 230v, 50/60hz |
| Z11AS-1B | Automatic Actuator 24v, 50/60hz |

# Water Products
# Product Code Selector

## Series 300 Control Valves (pages 22-25)

### Pilot Operated Pressure Regulating Valves

| | |
|---|---|
| DR300-50A | DN50, PN16 |
| DR300-50B | DN50, PN25 |
| DR300-65A | DN65, PN16 |
| DR300-65B | DN65, PN25 |
| DR300-80A | DN80, PN16 |
| DR300-80B | DN80, PN25 |
| DR300-100A | DN100, PN16 |
| DR300-100B | DN100, PN25 |
| DR300-150A | DN150, PN16 |
| DR300-150B | DN150, PN25 |
| DR300-200A | DN200, PN16 |
| DR300-200B | DN200, PN25 |
| DR300-250A | DN250, PN16 |
| DR300-250B | DN250, PN25 |
| DR300-300A | DN300, PN16 |
| DR300-300B | DN300, PN25 |
| DR300-350A | DN350, PN16 |
| DR300-350B | DN350, PN25 |
| DR300-400A | DN400, PN16 |
| DR300-400B | DN400, PN25 |
| DR300-450A | DN450, PN16 |
| DR300-450B | DN450, PN25 |

### Pilot Operated Filling Valves

| | |
|---|---|
| FV300-50A | DN50, PN16 |
| FV300-50B | DN50, PN25 |
| FV300-65A | DN65, PN16 |
| FV300-65B | DN65, PN25 |
| FV300-80A | DN80, PN16 |
| FV300-80B | DN80, PN25 |
| FV300-100A | DN100, PN16 |
| FV300-100B | DN100, PN25 |
| FV300-150A | DN150, PN16 |
| FV300-150B | DN150, PN25 |
| FV300-200A | DN200, PN16 |
| FV300-200B | DN200, PN25 |
| FV300-250A | DN250, PN16 |
| FV300-250B | DN250, PN25 |
| FV300-300A | DN300, PN16 |
| FV300-300B | DN300, PN25 |
| FV300-350A | DN350, PN16 |
| FV300-350B | DN350, PN25 |
| FV300-400A | DN400, PN16 |
| FV300-400B | DN400, PN25 |

### Pilot Operated Filling Valves

| | |
|---|---|
| FV300-450A | DN450, PN16 |
| FV300-450B | DN450, PN25 |

### Pilot Operated Pressure Sustaining Valves

| | |
|---|---|
| DH300-50A | DN50 , PN16 |
| DH300-50B | DN50, PN25 |
| DH300-65A | DN65, PN16 |
| DH300-65B | DN65, PN25 |
| DH300-80A | DN80, PN16 |
| DH300-80B | DN80, PN25 |
| DH300-100A | DN100, PN16 |
| DH300-100B | DN100, PN25 |
| DH300-150A | DN150, PN16 |
| DH300-150B | DN150, PN25 |
| DH300-200A | DN200, PN16 |
| DH300-200B | DN200, PN25 |
| DH300-250A | DN250, PN16 |
| DH300-250B | DN250, PN25 |
| DH300-300A | DN300, PN16 |
| DH300-300B | DN300, PN25 |
| DH300-350A | DN350, PN16 |
| DH300-350B | DN350, PN25 |
| DH300-400A | DN400, PN16 |
| DH300-400B | DN400, PN25 |
| DH300-450A | DN450, PN16 |
| DH300-450B | DN450, PN25 |

### Pilot Operated Quick Relief Safety Valves

| | |
|---|---|
| SV300-50A | DN50, PN16 |
| SV300-50B | DN50, PN25 |
| SV300-65A | DN65, PN16 |
| SV300-65B | DN65, PN25 |
| SV300-80A | DN80, PN16 |
| SV300-80B | DN80, PN25 |
| SV300-100A | DN100, PN16 |
| SV300-100B | DN100, PN25 |
| SV300-150A | DN150, PN16 |
| SV300-150B | DN150, PN25 |
| SV300-200A | DN200, PN16 |
| SV300-200B | DN200, PN25 |
| SV300-250A | DN250, PN16 |
| SV300-250B | DN250, PN25 |
| SV300-300A | DN300, PN16 |
| SV300-300B | DN300, PN25 |
| SV300-350A | DN350, PN16 |
| SV300-350B | DN350, PN25 |
| SV300-400A | DN400, PN16 |
| SV300-400B | DN400, PN25 |
| SV300-450A | DN450, PN16 |
| SV300-450B | DN450, PN25 |

# Water Products
# Product Code Selector

## Series 300 Control Valves *continued* (pages 22-25)

### Pilot Operated Solenoid Valves

| | |
|---|---|
| MV300-50A | DN50, P16 |
| MV300-50B | DN50, P25 |
| MV300-65A | DN65, P16 |
| MV300-65B | DN65, PN25 |
| MV300-80A | DN80, PN16 |
| MV300-80B | DN80, PN25 |
| MV300-100A | DN100, PN16 |
| MV300-100B | DN100, PN25 |
| MV300-150A | DN150, PN16 |
| MV300-150B | DN150, PN25 |
| MV300-200A | DN200, PN16 |
| MV300-200B | DN200, PN25 |
| MV300-250A | DN250, PN16 |
| MV300-250B | DN250, PN25 |
| MV300-300A | DN300, PN16 |
| MV300-300B | DN300, PN25 |
| MV300-350A | DN350, PN16 |
| MV300-350B | DN350, PN25 |
| MV300-400A | DN400, PN16 |
| MV300-400B | DN400, PN25 |
| MV300-450A | DN450, PN16 |
| MV300-450B | DN450, PN25 |

### Pilot Operated Pump Control Valves

| | |
|---|---|
| PS300-50A | DN50, PN16 |
| PS300-50B | DN50, PN25 |
| PS300-65A | DN65, PN16 |
| PS300-65B | DN65, PN25 |
| PS300-80A | DN80, PN16 |
| PS300-80B | DN80, PN25 |
| PS300-100A | DN100, PN16 |
| PS300-100B | DN100, PN25 |
| PS300-150A | DN150, PN16 |
| PS300-150B | DN150, PN25 |
| PS300-200A | DN200, PN16 |
| PS300-200B | DN200, PN25 |
| PS300-250A | DN250, PN16 |
| PS300-250B | DN250, PN25 |
| PS300-300A | DN300, PN16 |
| PS300-300B | DN300, PN25 |
| PS300-350A | DN350, PN16 |
| PS300-350B | DN350, PN25 |
| PS300-400A | DN400, PN16 |
| PS300-400B | DN400, PN25 |
| PS300-450A | DN450, PN16 |
| PS300-450B | DN450, PN25 |

### Pilot Operated Priority Valves

| | |
|---|---|
| VV300-50A | DN50, P16 |
| VV300-50B | DN50, P25 |
| VV300-65A | DN65, P16 |
| VV300-65B | DN65, PN25 |
| VV300-80A | DN80, PN16 |
| VV300-80B | DN80, PN25 |
| VV300-100A | DN100, PN16 |
| VV300-100B | DN100, PN25 |
| VV300-150A | DN150, PN16 |
| VV300-150B | DN150, PN25 |
| VV300-200A | DN200, PN16 |
| VV300-200B | DN200, PN25 |
| VV300-250A | DN250, PN16 |
| VV300-250B | DN250, PN25 |
| VV300-300A | DN300, PN16 |
| VV300-300B | DN300, PN25 |
| VV300-350A | DN350, PN16 |
| VV300-350B | DN350, PN25 |
| VV300-400A | DN400, PN16 |
| VV300-400B | DN400, PN25 |
| VV300-450A | DN450, PN16 |
| VV300-450B | DN450, PN25 |

### Pilot Operated Flow Rate Regulator Valves

| | |
|---|---|
| VR300-50A | DN50, P16 |
| VR300-50B | DN50, P25 |
| VR300-65A | DN65, P16 |
| VR300-65B | DN65, PN25 |
| VR300-80A | DN80, PN16 |
| VR300-80B | DN80, PN25 |
| VR300-100A | DN100, PN16 |
| VR300-100B | DN100, PN25 |
| VR300-150A | DN150, PN16 |
| VR300-150B | DN150, PN25 |
| VR300-200A | DN200, PN16 |
| VR300-200B | DN200, PN25 |
| VR300-250A | DN250, PN16 |
| VR300-250B | DN250, PN25 |
| VR300-300A | DN300, PN16 |
| VR300-300B | DN300, PN25 |
| VR300-350A | DN350, PN16 |
| VR300-350B | DN350, PN25 |
| VR300-400A | DN400, PN16 |
| VR300-400B | DN400, PN25 |
| VR300-450A | DN450, PN16 |
| VR300-450B | DN450, PN25 |

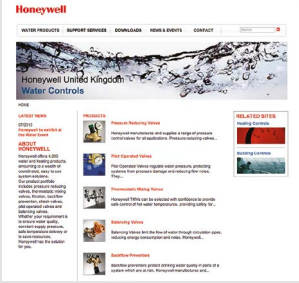
# Accreditations and Trade Bodies

**WRAS Approval**
When installing a product which will carry or receive water from the public mains water supply in the UK, it is a criminal offence if it does not comply with the Water Supply (Water Fittings) Regulations or Scottish Byelaws. These require that a water fitting should not cause waste, misuse, undue consumption or contamination of the water supply and must be 'of an appropriate quality and standard'.

WRAS Approval is the best way to demonstrate compliance as it is granted directly by representatives of the water suppliers and is therefore accepted by every water supplier in the UK.

**We are members of the following:**

# Our Water Controls Website

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