

resideo

Resideo Braukmann Water Controls

For a broad range of
commercial applications



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Water controls for a broad range of commercial applications

This brochure covers our extensive range of controls for potable water. These solutions are ideal for commercial, industrial and domestic applications.

Resideo has a broad portfolio to meet a range of requirements:

- Ensure water quality
- Maintain constant supply pressure
- Keep water at a safe temperature
- Reduce water consumption and cost

The name Braukmann is synonymous with innovation in the drinking water sector, and Resideo Braukmann water control valves continue this long tradition, with a market leading and ecologically responsible portfolio of products.

- Our quality management system is certified to BSI EN ISO 9001
- Our health & safety procedures are certified to ISO 45001
- We aim to benchmark ourselves to the highest global sustainability standards and hold a Silver Medal from Ecovadis



Resideo water controls manufacturing plant,
Mosbach, Germany

PRODUCT RANGES

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Made in Mosbach, Germany

Our focus is on developing high-quality, sustainable and user-friendly products. Braukmann water controls are produced using environmentally friendly manufacturing and recycling processes, with an exceptional level of vertical integration, at our site in Mosbach, Germany.

Step inside the
Mosbach factory



Water Pressure Control

Pressure control 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, which minimises flow noises. Reducing the pressure can help to reduce consumption, conserving natural resources and saving you money.

EFFICIENT WATER CONSUMPTION*			
WATER PRESSURE	WATER CONSUMPTION PER PERSON PER DAY	WATER CONSUMPTION PER YEAR FOR A 4-PERSON HOUSEHOLD	WATER CONSUMPTION AS A PERCENTAGE
6.0 bar	140 litres	200m ³	100%
4.0 bar	113 litres	162m ³	81%
3.0 bar	99 litres	142m ³	71%

**Data based on assumptions*

Water Pressure Control



D04FM

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

Features and benefits:

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

This range is designed to protect water installations against excessive pressure from the supply. It can also be used for industrial and commercial applications.

Features and benefits:

- Suitable for hot and cold water systems up to 80°C
- Spring-loaded, balanced seat for 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 to 6 bar outlet pressure

Sizes:

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

Accessories:

- 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 to 6 bar outlet pressure
- Class 1 acoustic valve ensures quiet operation
- High-quality synthetic valve insert ensures resistance to scaling and cavitation

Sizes:

- 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" bsp connections





D05FS

The D05FS is designed to protect commercial and industrial water installations against excessive pressure from the supply, and offers excellent pressure control for both cold water and hot water installations.

Features and benefits:

- Suitable for hot water systems up to 70°C permanent, 80°C short-term
- With internal and external threads ½" - 1", with external threads 1 ¼" - 2"
- Up to 16 bar inlet pressure
- Outlet pressure range 1.5 to 6 bar
- Set pressure is directly indicated on the set point scale
- Inlet pressure balancing – no influence on outlet pressure by fluctuating inlet pressure
- The valve insert is of high-quality synthetic material and can be fully exchanged

Sizes:

- ½", ¾", 1", 1 ¼", 1 ½", 2" bsp connections

Accessories:

- M38K pressure gauge



D06Fi

Features and benefits:

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

Sizes:

- ½", ¾", 1", 1 ¼", 1 ½" and 2" bsp connections



D06FN (Low pressure applications)

D06FH (High pressure)

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
- Class 1 acoustic valve ensures quiet operation
- D06FN outlet pressure 0.5 bar to 2 bar
- D06FH outlet pressure 1.5 bar to 12 bar

Sizes:

- ½", ¾", 1", 1 ¼", 1 ½" and 2" bsp connections



M07M



ZR06K



D06FA



ES06F

Accessories for all products on this page

- M07M pressure gauge
- ZR06K double socket wrench
- D06FA valve insert
- ES06F fine filter

Water Pressure Control

D15S Pressure reducing valve range

The D15S range of flanged pressure reducing valves can be used to protect large domestic, commercial and industrial applications against excessive pressure. Providing 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
- Powder coating for high corrosion protection
- Simple maintenance (access from above)
- Adjustment spring is not in contact with drinking water
- All metal parts with contact to the flow are stainless steel
- Patented two cartridge solution for easy assembly and maintenance
- One cartridge insert fits all nominal widths
- Inlet and outlet pressure gauge
- Accelerated life test with over 400,000 cycles



D15S

Designed for standard applications:

- Inlet pressure up to 16 bar
- Outlet pressure:
DN50-100 1.5-7.5 bar
DN150-200 1.5-8 bar
- Nominal pressure PN16

Sizes:

- DN50, DN65, DN80, DN100,
DN150, DN200

Accessories:

- 0904220 Valve insert



D15SN

Designed for low pressure applications:

- Inlet pressure up to 16 bar
- Outlet pressure: 0.5-2 bar

Sizes:

- DN50, DN65, DN80, DN100

D15SH

Designed for high pressure applications PN25:

- Inlet pressure up to 25 bar
- Outlet pressure: 3-10 bar

Sizes:

- DN50, DN65, DN80, DN100





Thermostatic Temperature Control

Thermostatic mixing valves (TMV) are designed to control water temperatures at a safe level for showering, bathing and hand washing. They blend hot and cold water to pre-set temperatures via a thermally sensitive element. The mechanism can automatically compensate for variations in supply pressure or temperature. In the event of cold water failure, the TMV will automatically shut down the flow to prevent discharge of dangerously hot water.

Understanding

TMV2 and TMV3

TMV2 and TMV3 approval is administered by NSF International, an independent third party. NSF International certifies TMVs against the requirements of the NHS Estates Model Engineering Specification D 08 (TMV3 approval), and the requirements of BS EN 1111 and 1287 (TMV2 approval).



Within the domestic market, there is a risk to all members of a household from scalding, especially younger and older residents. NSF International developed the TMV2 approval to set the minimum performance levels of valves.



The NHS Estates Document D 08 is primarily for TMVs installed within healthcare properties that supply hot water to vulnerable members of the NHS facility. The performance requirements of D 08 mean that TMVs 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 also recognised the need for thermostatically controlled mixing valves. In 2010, Part G was revised to include a section on prevention of scalding. This revision applies to baths in all new builds, 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. 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 a 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 TM200VP is a TMV3 scheme approved TMV. It is 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 – the hot water inlet is automatically cut off if the cold supply fails, provided that the hot water inlet temperature is at least 10 K higher than that of mixed water setting
- Inner components are made of scale-resistant materials
- Highly sensitive thermal element with good all-round water temperature sensing, even at low flow rates
- The cold water inlet is automatically cut off if the hot supply fails

Sizes:

- 15mm and 22mm compression connections



TM200VP '4 in 1'

In addition to the TM200VP features this '4 in 1' variant includes check valves, strainers, isolating valves and test points.

Sizes:

- 15mm compression connections



A GUIDE TO WHERE LEGISLATION REQUIRES TMVS TO BE FITTED AND WHICH MIXING VALVES TO USE IN EACH CIRCUMSTANCE.							
TYPE OF ENVIRONMENT	APPLIANCE	IS A TMV REQUIRED BY LEGISLATION 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 Basin Shower			Yes Yes Yes		TMV2 TMV2 TMV2	
Housing association dwelling	Bath Basin Shower		Yes	Yes Yes		TMV2 TMV2 TMV2	Housing Corp Standard (1.2.1.33a)
Housing association dwelling for (1.2.1.58 and the elderly)	Bath Basin Shower	Yes Yes Yes				TMV2 TMV2 TMV2	Housing Corp Standard (1.2.1.58) and (1.2.1.59)
Hotel	Bath Basin Shower			Yes Yes Yes		TMV2 TMV2 TMV2	Guidance to the Water Regulations (G18.5)
NHS nursing home	Bath Basin Shower		Yes Yes Yes		TM200VP -3/4E 15mm compression fittings. TM200VP -3/4H 22mm compression fittings.	TMV3 TMV3 TMV3 TMV3	NHS Health Guidance Note, Care Standards Act 2000, Care Homes Regulation 2001, D08
Private nursing home	Bath Basin Shower		Yes Yes Yes		TM200VP -3/4E 15mm compression fittings. TM200VP -3/4H 22mm compression fittings.	TMV3 TMV3 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 Basin Shower	Yes Yes Yes			TM200VP -3/4E 15mm compression fittings. TM200VP -3/4H 22mm compression fittings.	TMV3 TMV3 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 Basin Shower	Yes Yes Yes, but 43 °C	Yes			TMV2 TMV2 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 Basin Shower	Yes Yes Yes, but 43 °C	Yes		TM200VP -3/4E 15mm compression fittings. TM200VP -3/4H 22mm compression fittings.	TMV3 TMV3 TMV3	Building Bulletin 87, 2nd edition, The School Premises Regulations, If residential, Care Standards Act
NHS hospital	Bath Basin Shower	Yes Yes Yes			TM200VP -3/4E 15mm compression fittings. TM200VP -3/4H 22mm compression fittings.	TMV3 TMV3 TMV3	NHS Health Guidance Note, D08
Private hospital	Bath Basin Shower	Yes Yes Yes			TM200VP -3/4E 15mm compression fittings. TM200VP -3/4H 22mm compression fittings.	TMV3 TMV3 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 Bulletin 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

Designed to maintain circulation in the domestic hot water system by controlling the flow using a thermal element, these valves also allow hot water to be distributed hygienically around the circulation system.



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.



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

Kombi 4 (V1810Y)

A thermostatic balancing valve for hot water circulation systems. Installed in the return pipework and equipped with a thermal actuator, the Kombi 4 controls return water temperatures and automatically supports thermal disinfection.

Features and benefits:

- Optional thermostatic actuator allows a thermal disinfection cycle
- Temperature control range 50°C to 60°C
- Combined throttle and shut-off facility (no need for additional isolation valves)
- Separate drain adapter can be used as a drain-off point
- Additional thermometer can clearly display the circulation temperature

Sizes:

- ½", ¾", 1", 1¼" and 1½" bsp connections with various fitting options



Backflow Prevention

Backflow prevention devices prevent contaminated fluid from flowing 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:

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

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



BA295S

Features and benefits:

- Compact construction
- Combined check valve and discharge valve cartridge assembly (easier servicing/maintenance)
- Maximum operating temperature 60 °C
- Dezincification resistant (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:

- ½", ¾", 1", 1¼", 1½" and 2" bsp connections

Accessories:

- Check valve and cartridges (see page 17)



BA295i

Features and benefits:

- Compact, stainless steel construction
- Combined check valve and discharge valve cartridge assembly (easier servicing/maintenance)
- Maximum operating temperature 60 °C
- Integral inlet strainer
- High flow rate
- Triple security – two check valves and a discharge valve separate the backflow preventer into three pressure zones

Sizes:

- 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" bsp connections

Accessories:

- Check valve and cartridges (see page 17)



BA195

Features and benefits:

- Compact construction – suitable for areas where space is limited
- Combined check valve and discharge valve cartridge assembly (easier servicing/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

Accessories:

- Check valve and cartridges (see page 18)



BA298I-F

This stainless steel flanged backflow preventer provides increased corrosion protection and is 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 for maximum corrosion protection
- Maximum operating temperature 60 °C

Sizes:

- DN65, DN80, DN100 and DN150



BA300

This flanged backflow preventer is suitable for protection against back pressure, backflow and back siphonage for fluids up to Category 4.

Features and benefits:

- Powder coated ductile iron construction
- Interchangeable check valves for easier servicing/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



Inlet Check Valve



Outlet Check Valve



CA295

This backflow preventer is 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 (DZR) brass housing
- Integral strainer on the inlet side
- Based on tried and tested cartridge principle with no diaphragm
- Horizontal installation with discharge valve downwards
- Maximum operating temperature 65 °C

Sizes:

- ½" to ¾" bsp connections

Water Metering

Resideo manufacture and supply a comprehensive range of water metering solutions. This includes highly accurate volumetric meters and singlejet smart metering solutions for residential, commercial and industrial sectors.

EW110 Series - Singlejet Water Meters



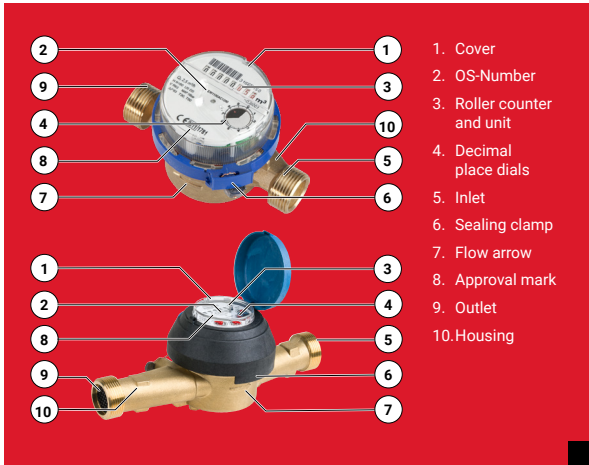
Application:

EW110 Series singlejet water meters are used for volume measurement of cold or hot water in residential drinking water systems.

Available in sizes DN15 to DN40 with a mechanical counter, they can be retrofitted with clip-on M-Bus or pulse out modules for integration into remote readout networks. Common sizes are available with factory installed and configured M-Bus module.

EW1100 water meters are suitable for cold water up to 30 °C or 50 °C, and EW1101 water meters are suitable for hot water up to 90 °C or 130 °C.

Sizes DN15 to DN20 are available with standard or extended flow range, similar to former EEC classes B and C. Larger sizes have extended flow range only, similar to class C.



Special Features:

- Fully resistant to external magnetic fields
- Retrofittable modules for wired M-Bus / pulse out / RF communication

Connections:

- Nominal sizes: DN15–DN40
- Nominal flow Q3: 2.5–16 m3/h

Operating temperatures:

- Medium temperature:
 - EW1100: 0.1–50 °C
 - EW1101: 0.1–90 °C (DN15–20)
 - EW1101: 0.1–130 °C (DN25–40)
- Temperature class:
 - EW1100: T30, T50
 - EW1101: T90 (DN15–20)
 - EW1101: T30/T130 (DN25–40)
- Ambient temperature: 5–55 °C

Specifications:

- Measuring process: Mechanical dry counter with impeller and singlejet volume measurement
- Display:
 - DN15–20: 8-digit roller counter
 - DN25–40: 5-digit roller counter
- Display unit: m3
- Display range: 105 with four decimal places
- Increments: 0.00005 m3
- Acceptable error:
 - ±2% at Q3 for water ≤30 °C
 - ±3% at Q3 for water >30 °C
- Installation position: H, V (horizontal, vertical)
- Optional interfaces: Wired M-Bus, RF and pulse out
- Water pressure class: MAP16 (max. 16 bar)
- Pressure loss at Q3: 63kPa
- Protection class: IP65
- Environmental class: B
- Mechanical class: M1
- Electromagnetic class: E1

Water Filtration - Backwashing

Resideo's water filters use a patented reverse rinsing system to ensure clean water is continually supplied to an appliance or process. Dirt particles/foreign bodies are filtered out by a fine stainless steel mesh filter to prevent pipework corrosion and optimise system performance. Water filter solutions combining water filtration with pressure control are available, along with accessories to automate filters.

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 flow is always available, even during the backwash process.



F76S

Features and benefits:

- Double spin technology for connection sizes ½"–1 ¼"
- Replaceable filter and filter bowl
- Available with a pressure gauge
- 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", 2"



F78TS-F

Features and benefits:

- Easy to maintain and service
- 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
- DDS76S can be used with the Z11AS automatic actuator for fully automated operation

Sizes:

- DN65, DN80, DN100, DN125



DDS76

Provides optimum protection by causing the filter to enter reverse rinse mode automatically should the mesh become blocked during operation.

Features and benefits:

- Pressure differential set range 0.1 to 1.6 bar
- Simple to install and easy to reset



Z11S/Z11AS

Provides fully automatic cleaning for reverse rinsing filters, filter combinations, water supply units and water distributor units.

Features and benefits:

- Time intervals 4 minutes to 3 months
- Pushbuttons give easy setting of interval
- Pushbutton for manual operation of reverse rinsing
- LED indicator of time interval set
- Automatic battery run-on in the event of a power failure
- BMS monitoring facility

Pilot Operated Valve Control

Resideo's 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.

Series 300 valves offer excellent regulation from full flow capacity 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 solenoid operated and managed by a Building Management System controller.



DR300

This pressure-regulating valve maintains constant outlet pressure regardless of inlet pressure fluctuations.

Features and benefits:

- High flow capacity
- Inlet pressure: 0.5-16 bar / 0.5–25 bar
- Outlet pressure: 3-15 bar / 3–19 bar
- Pilot control circuit with integral rinsable filter insert
- PN 16 standard. PN 25 on request

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
- Minimum pressure: 0.5 bar
- Opening pressure: 3–15 bar / 3–19 bar
- Pilot control circuit with integral rinsable filter insert
- PN 16 standard. PN 25 on request

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 with excess pressure
- Pilot control circuit with integral rinsable filter insert
- PN 16 standard. PN 25 on request

Sizes:

- DN50–DN450



MV300

A magnetic remote-controlled solenoid valve that opens or shuts the flow of 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

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

Sizes:

- DN50–DN450



PS300

The PS300 valve is used as a protection valve in pressure boosting systems to provide 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 is physiologically and toxicologically safe)
- Integral control circuit and ball valves
- PN 16 standard. PN 25 on request

Sizes:

- DN50–DN450



VV300

VV300 priority valves are a combination of pressure-regulating and pressure-limiting valves. They ensure priority drinking water supply to important systems. Ancillary systems are then supplied only when there is sufficient surplus drinking water available. They are ideal for applications where space is limited, for example in ducts.

Features and benefits:

- High flow capacity
- High control accuracy
- Powder coated inside and outside (powder is physiologically and toxicologically safe)
- Integral control circuit and ball valves
- Opening pressure: pilot valve CX-PS 3.0–15 bar
- Outlet pressure: pilot valve CX-PR 3.0–15 bar
- PN 16 standard. PN 25 on request

Sizes:

- DN50–DN450



VR300

In this valve, a flow rate regulator controls a fixed flow rate, independent of fluctuating operating pressures and take-off flow rates. This prevents, for example, pumps running at performance levels that are too high.

Features and benefits:

- High flow capacity
- High control accuracy
- Powder coated inside and outside (powder is physiologically and toxicologically safe)
- Integral control circuit and ball valves
- PN 16 standard. PN 25 on request

Sizes:

- DN50–DN450

Product Code Selector

Pressure Reducing Valves

D04FM Pressure Reducing Valves

D04FM-1/2A	Pressure reducing valve, 1/2" BSPF connections, range 1.5-6.0 bar
D04FM-3/4A	Pressure reducing valve, 3/4" BSPF connections, range 1.5-6.0 bar
D04FM-1/2ZC	Pressure reducing valve, 15mm compression, range 1.5-6.0 bar
D04FM-3/4ZC	Pressure reducing valve, 22mm compression, range 1.5-6.0 bar
D04FM-3/8A	Pressure reducing valve, 3/8" BSPF connections, 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	Pressure reducing valve, 1/2" bspm connections, 1.5-6.0 bar
D05FT-3/4AGB	Pressure reducing valve, 3/4" bspm connections, 1.5-6.0 bar
D05FT-1AGB	Pressure reducing valve, 1" bspm connections, 1.5-6.0 bar
D05FT-1/2CGB	Pressure reducing valve, 15mm compression fittings, 1.5-6.0 bar
D05FT-3/4CGB	Pressure reducing valve, 22mm compression fittings, 1.5-6.0 bar

Accessories

M38T-A10	Pressure gauge up to 10 bar
ZR06K	Double socket wrench

D05FS Pressure Reducing Valves

D05FS-1/2AGB	Pressure reducing valve 1/2" bspm connections, 1.5 to 6.0 bar, 70°C
D05FS-3/4AGB	Pressure reducing valve 3/4" bspm connections, 1.5 to 6.0 bar, 70°C
D05FS-1AGB	Pressure reducing valve 1" bspm connections, 1.5 to 6.0 bar, 70°C
D05FS-11/4AGB	Pressure reducing valve 1 1/4" bspm connections, 1.5 to 6.0 bar, 70°C
D05FS-11/2AGB	Pressure reducing valve 1 1/2" bspm connections, 1.5 to 6.0 bar, 70°C
D05FS-2AGB	Pressure reducing valve 2" bspm connections, 1.5 to 6.0 bar, 70°C

D06F Pressure Reducing Valves

D06F-1/2BGB	Pressure reducing valve brass strainer bowl, 1/2"
D06F-1/2K	Pressure reducing valve brass strainer bowl, 1/2" compression fittings
D06F-3/4BGB	Pressure reducing valve brass strainer bowl, 3/4"
D06F-3/4K	Pressure reducing valve brass strainer bowl, 3/4" compression fittings
D06F-1BGB	Pressure reducing valve brass strainer bowl, 1"
D06F-11/4BGB	Pressure reducing valve brass strainer bowl, 1 1/4"
D06F-11/2BGB	Pressure reducing valve brass strainer bowl, 1 1/2"
D06F-2BGB	Pressure reducing valve brass strainer bowl, 2"

D06FH Pressure Reducing Valves

D06FH-1/2BGB	High pressure outlet PRV, brass bowl, 1/2"
D06FH-3/4BGB	High pressure outlet PRV, brass bowl, 3/4"
D06FH-1BGB	High pressure outlet PRV, brass bowl, 1"
D06FH-11/4BGB	High pressure outlet PRV, brass bowl, 1 1/4"
D06FH-11/2BGB	High pressure outlet PRV, brass bowl, 1 1/2"
D06FH-2BGB	High pressure outlet PRV, brass bowl, 2"

Product Code Selector

Pressure Reducing Valves

D06FN Pressure Reducing Valves

D06FN-1/2BGB	Low pressure outlet PRV brass strainer bowl, 1/2"
D06FN-3/4BGB	Low pressure outlet PRV brass strainer bowl, 3/4"
D06FN-1BGB	Low pressure outlet PRV brass strainer bowl, 1"
D06FN-11/4BGB	Low pressure outlet PRV brass strainer bowl, 11/4"
D06FN-11/2BGB	Low pressure outlet PRV brass strainer bowl, 11/2"
D06FN-2BGB	Low pressure outlet PRV brass strainer bowl, 2"

Accessories

M07M-A04	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 socket wrench

D15S Pressure Reducing Valves

D15S-50A	Pressure reducing valve, DN50 1.5-7.5 bar
D15S-65A	Pressure reducing valve, DN65 1.5-7.5 bar
D15S-80A	Pressure reducing valve, DN80 1.5-7.5 bar
D15S-100A	Pressure reducing valve, DN100 1.5-7.5 bar
D15S-150A	Pressure reducing valve, DN150 1.5-8.0 bar
D15S-200A	Pressure reducing valve, DN200 1.5-8.0 bar
D15SN-50A	Pressure reducing valve, DN50 0.5-2 bar
D15SN-65A	Pressure reducing valve, DN65 0.5-2 bar
D15SN-80A	Pressure reducing valve, DN80 0.5-2 bar
D15SN-100A	Pressure reducing valve, DN100 0.5-2 bar
D15SH-50B	Pressure reducing valve, DN50 PN25 3-10 bar
D15SH-65B	Pressure reducing valve, DN65 PN25 3-10 bar
D15SH-80B	Pressure reducing valve, DN80 PN25 3-10 bar
D15SH-100B	Pressure reducing valve, DN100 PN25 3-10 bar

Accessories

0904175	Valve insert complete DN50
0904122	Valve insert complete DN65-DN100
0904139	Valve insert complete DN150-DN200
0904176	Set of seals complete DN50
0904121	Set of seals complete DN65-DN100
0904140	Set of seals complete DN150-DN200
M39M-A10	Pressure gauge up to 10 bar
M39M-A16	Pressure gauge up to 16 bar
M39M-A25	Pressure gauge up to 25 bar
EXF125-A	Extension Flange adapter to take a 100mm flange to 125mm

Thermostatic Mixing Valves

TM200VP TMVs

TM200VP-3/4E	Thermostatic Mixing Valve, 15mm, complete with check valves, TMV3
TM200VP-3/4H	Thermostatic Mixing Valve, 22mm, complete with check valves, TMV3
TM200VP-3/4ZC	Thermostatic mixing valve, 15mm with 4 in 1 tailpieces, TMV3
VST200VP-15	15mm 4 in 1 tailpieces

Thermal Balancing Valves

Kombi 4 Balancing Valves

V1810Y0015	Kombi 4, shut-off and throttle valve, 1/2", internal thread
V1810Y0020	Kombi 4, shut-off and throttle valve, 3/4", internal thread
V1810Y0025	Kombi 4, shut-off and throttle valve, 1", internal thread
V1810Y0032	Kombi 4, shut-off and throttle valve, 1 1/4", internal thread
V1810Y0040	Kombi 4, shut-off and throttle valve, 1 1/2", 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 and Check Valves

BA295S RPZ Valves

BA295S-1/2AGB	Back flow preventer - BA295S - 1/2"
BA295S-3/4AGB	Back flow preventer - BA295S - 3/4"
BA295S-1AGB	Back flow preventer - BA295S - 1"
BA295S-1 1/4AGB	Back flow preventer - BA295S - 1 1/4"
BA295S-1 1/2AGB	Back flow preventer - BA295S - 1 1/2"
BA295S-2AGB	Back flow preventer - BA295S - 2A
BA295I-1/2A	Back flow preventer - BA295I - 1/2" in SS
BA295I-3/4A	Back flow preventer - BA295I - 3/4" in SS
BA295I-1A	Back flow preventer - BA295I - 1" in SS
BA295I-1 1/4A	Back flow preventer - BA295I - 1 1/4" in SS
BA295I-1 1/2A	Back flow preventer - BA295I - 1 1/2" in SS
BA295I-2A	Back flow preventer - BA295I - 2" in SS

Accessories

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

BA195 Backflow Preventer

BA195-3/8E	Mini-backflow Preventer 3/8"
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BA298I-F Stainless Steel Flanged RPZ Valves

BA298I-65FA	Flanged back flow preventer - DN65
BA298I-80FA	Flanged back flow preventer - DN80
BA298I-100FA	Flanged back flow preventer - DN100
BA298I-150FA	Flanged back flow preventer - DN150

BA Valve Test Kits

TKA295	Analogue test kit for BA valves
TK295	Electronic test kit for BA valves

Product Code Selector

Backflow Preventers and Check Valves

BA300 Flanged 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-DN200
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

Water Meters

EW110 Single Jet Water Meters

EW1100AC0600	DN15 Standard flow range 1.6m³/h Length 110mm for cold water
EW1101AC0600	DN15 Standard flow range 1.6m³/h Length 110mm for warm water
EW1100AC1100	DN15 Standard flow range 2.5m³/h Length 80mm for cold water
EW1101AC1100	DN15 Standard flow range 2.5m³/h Length 80mm for warm water
EW1100AC1200	DN15 Standard flow range 2.5m³/h Length 110mm for cold water
EW1101AC1200	DN15 Standard flow range 2.5m³/h Length 110mm for warm water
EW1100AC1400	DN20 Standard flow range 2.5m³/h Length 130mm for cold water
EW1101AC1400	DN20 Standard flow range 2.5m³/h Length 130mm for warm water
EW1100AC2000	DN20 Standard flow range 4m³/h Length 130mm for cold water
EW1101AC2000	DN20 Standard flow range 4m³/h Length 130mm for warm water
EW1100CC2800	DN15 Extended flow range 6.3m³/h Length 260mm for cold water
EW1101CC2800	DN15 Extended flow range 6.3m³/h Length 260mm for warm water
EW1100CC3900	DN32 Extended flow range 10m³/h Length 260mm for cold water
EW1101CC3900	DN32 Extended flow range 10m³/h Length 260mm for warm water
EW1100CC4600	DN40 Extended flow range 16m³/h Length 300mm for cold water
EW1101CC4600	DN40 Extended flow range 16m³/h Length 300mm for warm water

Water Meters

EW110 Single Jet Water Meters

EW1100CM1200	DN15 Extended flow range with MBus 2.5m³/h Length 110mm for cold water
EW1101CM1200	DN15 Extended flow range with MBus 2.5m³/h Length 110mm for warm water
EW1100CM2000	DN20 Extended flow range with MBus 4m³/h Length 130mm for cold water
EW1101CM2000	DN20 Extended flow range with MBus 4m³/h Length 130mm for warm water
EW1100CM2800	DN25 Extended flow range with MBus 6.3m³/h Length 260mm for cold water
EW1101CM2800	DN25 Extended flow range with MBus 6.3m³/h Length 260mm for warm water
EW1100CM3900	DN32 Extended flow range with MBus 10m³/h Length 260mm for cold water
EW1101CM3900	DN32 Extended flow range with MBus 10m³/h Length 260mm for warm water
EW1100CM4600	DN40 Extended flow range with MBus 16m³/h Length 300mm for cold water
EW1101CM4600	DN40 Extended flow range with MBus 16m³/h Length 300mm for warm water

Filtration

F78TS Flanged Backwash 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

F76S Backwash Filters

F76S-1/2AAM	Water filter rev rinse filter 1/2" 100 micron up to 70°C
F76S-3/4AB	Water filter rev rinse filter 3/4" 20 micron
F76S-3/4AC	Water filter rev rinse filter 3/4" 50 micron
F76S-3/4AD	Water filter rev rinse filter 3/4" 200 micron
F76S-3/4AAM	Water filter rev rinse filter 3/4" 100 micron up to 70°C
F76S-1AA	Water filter rev rinse filter 1" 100 micron
F76S-1AB	Water filter rev rinse filter 1" 20 micron
F76S-1AC	Water filter rev rinse filter 1" 50 micron
F76S-1AD	Water filter rev rinse filter 1" 200 micron
F76S-1AAM	Water filter rev rinse filter 1" 100 micron up to 70°C
F76S-11/4AA	Water filter rev rinse filter 11/4" 100 micron
F76S-11/4AB	Water filter rev rinse filter 11/4" 20 micron
F76S-11/4AC	Water filter rev rinse filter 11/4" 50 micron
F76S-11/4AD	Water filter rev rinse filter 11/4" 200 micron
F76S-11/4AAM	Water filter rev rinse filter 11/4" 100 micron up to 70°C
F76S-11/2AA	Water filter rev rinse filter 11/2" 100 micron
F76S-11/2AB	Water filter rev rinse filter 11/2" 20 micron
F76S-11/2AC	Water filter rev rinse filter 11/2" 50 micron
F76S-11/2AD	Water filter rev rinse filter 11/2" 200 micron
F76S-11/2AAM	Water filter rev rinse filter 11/4" 100 micron up to 70°C
F76S-2AA	Water filter rev rinse filter 2" 100 micron

Product Code Selector

Filtration

F76S Backwash Filters

F76S-2AB	Water filter rev rinse filter 2" 20 micron
F76S-2AC	Water filter rev rinse filter 2" 50 micron
F76S-2AD	Water filter rev rinse filter 2" 200 micron
F76S-2AAM	Water filter rev rinse filter 2" 100 micron 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 1 1/2" + 2"
Z11S-A	Actuator with European plug 230V, 50/60Hz, 10 W

Pilot Operated Control Valves

Pressure Reducing Valves

Ordering example DR300-65A = DR300 (DN size) A / B PN16/25

Float Operated Control Valves

Ordering example FV300-65A = FV300 (DN size) A / B PN16/25

Pressure Sustaining Valves

Ordering example DH300-80A = DH300 (DN size) A / B PN16/25

Quick Relief Valve

Ordering example SV300-50A = SV300 (DN size) A / B PN16/25

Solenoid Operated Valve

Ordering example MV300-65A = MV300 (DN size) A / B PN16/25

Contact Resideo

Customer Care Team, Newhouse, Scotland

Order placement and progress, price and delivery queries

Email: customer.careuk@resideo.com

Phone: +44 (0)1344 238 035

UK Technical Support

Email: technical.support@resideo.com

Resideo website

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Returns

Email: ukreturns@resideo.com

Notes

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Accreditations

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.' The way to demonstrate compliance is through one of the schemes below:



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