



水務署
Water Supplies Department

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檔號
Reference (10) in WSD 3321/17 Pt.1 T/J(703)

31 January 2018

Gate Way Valve & Fitting Ltd
Flat A1, 4/F., Galaxy Factory Building,
25-27 Luk Hop Street, San Po Kong,
Kowloon, Hong Kong

(Attn.: Mr Eric MUI)

Dear Sir,

Approval of “HONEYWELL” Pressure Reducing Valves

Your letter ref. GWL/17/00001 dated 13 June 2017 and subsequent clarification by email on 11 January 2018 refer.

It is noted that the fittings described below have been accepted by the United Kingdom Water Regulations Advisory Scheme (WRAS) to have complied with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations / Scottish Water Byelaws when correctly installed.

Name of Manufacturer: Honeywell GmbH

Country of Origin: Germany

Brand: Honeywell

Details of Fittings: Range of in-line manually adjustable pressure reducing valves with blue epoxy coated cast iron bodies, stainless steel cartridges, EPDM rubber diaphragm and seals. The outlet pressure is adjusted via a 24mm hexagonal spindle located on the top of the valve. Maximum working pressure 16.0 bar. Maximum outlet pressures: 1.5 - 6.5 bar. Cold water use only.

Model & Size: D15SI-65A - 65mm
D15SI-80A - 80mm
D15SI-100A - 100mm

Marking: Honeywell, model number, DN size, PN 16, EN-GJS-400-15 and flow arrow etched on body.
Model number, maximum working temperature, WRAS, Honeywell and made in Germany on adhesive label on body.

WRAS Approval Numbers: 1702051

Installation Requirement: R001, R120

Expiry Date: 28 February 2022

In view of the acceptance by WRAS, this Authority has no objection to the use of the said fittings in flushing water plumbing systems subject to full adherence to Waterworks installation requirements. In particular, you are required to draw your customers' attention to the following requirements –

“Installation shall comply with the ‘Installation Requirements & Notes’ of the WRAS’s approval letter concerned.”

A condition of this acceptance is that the fittings to be installed should be replicas of the samples certified by WRAS and no modification should be made to the fittings. This acceptance may be withdrawn at any time if the standard of the fittings installed fails to meet that of the approved samples or if the fittings are found to be unsuitable for use in flushing water plumbing systems.

For the use of the fittings in any project, the Acceptance Reference Number at the bottom of this letter must be quoted as a means of identification of acceptance of the fittings by this Authority.

Should you have any enquiries, please contact our Engineer Mr Terry KUNG at tel. no. 2294 2656.

Yours faithfully,



(CHAN Chung Kun)
for Water Authority

c.c. WSD 3321/1/82] - without catalogue
ME/MC] - with soft copy only

D15SI

Pressure Reducing Valve

Diaphragm-actuated with stainless steel Cartridge Insert

Product specification sheet



Application

Pressure reducing valves of this type protect installations against excessive pressure from the supply. They can be used for household, industrial or commercial applications within the range of their specification.

By installing a pressure reducing valve, pressurisation damage is avoided and water consumption is reduced.

The set pressure is also maintained constant, even when there is wide inlet pressure fluctuation.

Reduction of the operating pressure and maintaining it at a constant level minimizes flow noise in the installation.

Special Features

- Patented cartridge solution for easy assembly and maintenance
- One cartridge insert for all nominal widths make warehousing efficient
- Meets all requirements of DIN EN 1567
- All metal parts with contact to the flow made of stainless steel
- Functionality and performance have been confirmed by an accelerated life test with over 400,000 cycles (requirement acc. to DIN EN 1567: 200,000 cycles)
- Meets all requirements of KTW, W270, ACS and WRAS for potable water

Technical Data

Medium Drinking water, Sea water, compressed-air^{*1} acc. ISO 8573-1 class 2 in consideration of valid standards (e.g. EN 12502)

Operating temperature Max. 65 °C

Inlet pressure Max. 16 bar

Outlet pressure DN 65 - 100: 1.5 - 6.5^{*2} bar

Nominal pressure PN16

Minimum pressure drop 1.0 bar

Nominal size DN65, DN80, DN100

*1 As part of an installation being approved according to PED requirements, this product must also be certified.

*2 Higher outlet pressure on request.

Construction

The pressure reducing valve comprises:

- Housing with PN16 flanges per ISO7005-2, EN1092-2, face to face length acc. EN 558-1
- Spring bonnet with adjustment screw
- Adjustment spring
- Cartridge insert
- Pressure gauges

Materials

- Housing made of ductile cast iron (EN-GJS-400-15 EN1563), coated with Blue Epoxy Coating.
- Spring bonnet made of ductile cast iron (EN-GJS-400-15 EN1563), coated with Blue Epoxy Coating
- Cartridge insert made of stainless steel
- Spring steel adjustment spring
- Diaphragm and seals made of EPDM*
- Stainless steel screws and nuts

Approvals

DVGW approval requested

WRAS approval

Method of Operation

Spring loaded pressure reducing valves operate by means of a force equalizing system. The force of a diaphragm operates against the force of an adjustment spring. If the outlet pressure and therefore diaphragm force fall because water is drawn, the then greater force of the spring causes the valve to open. The outlet pressure then increases until the forces between the diaphragm and the spring are equal again.

The inlet pressure has no influence in either opening or closing of the valve. Because of this, inlet pressure fluctuation does not influence the outlet pressure, thus providing inlet pressure balancing.

Installation Example

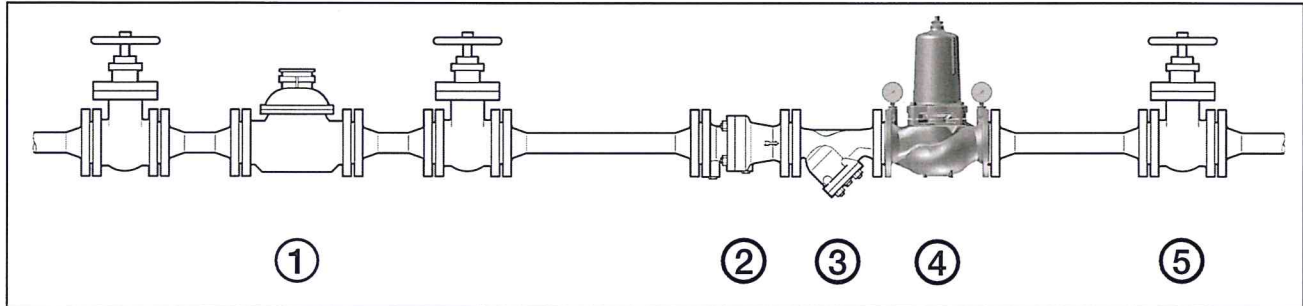


Figure 1: Installation example

- 1 Shut-off device
- 2 Check valve
- 3 Strainer
- 4 Pressure reducing valve
- 5 Shut-off valve

Connection size	DN	65	80	100
	Inch	2 1/2"	3"	4"
W ¹	mm	120	130	145

¹ Minimum distance from wall to centre line of pipework

Installation Guidelines

- Install in horizontal pipework with spring bonnet directed upwards
- Install shut-off valves
- The installation location should be protected against frost and be easily accessible:
 - Pressure gauge can be read off easily
 - Simplified maintenance and cleaning
- Install downstream of the filter or strainer. This position ensures optimum protection for the pressure reducing valve against dirt.
- Provide a straight section of pipework of at least five times the nominal valve size after the pressure reducing valve (in accordance with DIN EN806 part 2)

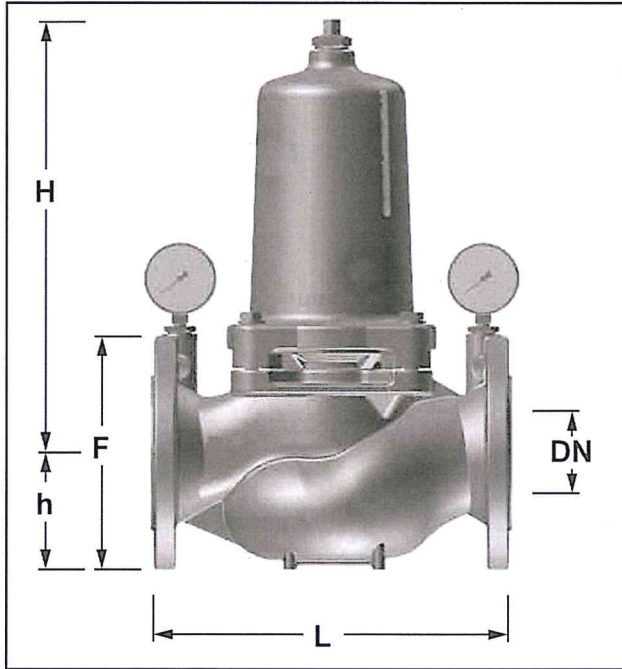
Typical Applications

Pressure reducing valves of this type are suitable for multi dwelling buildings, industrial and commercial applications within the range of their specifications.

The pressure reducing valve should be installed, if one or more of the following conditions apply:

- The static pressure exceeds the maximum permissible value for the system.
- Several pressure zones are required when a pressurisation system is used (pressure reducers on each storey of a building).
- Pressure fluctuations in the downstream system must be avoided.
- To achieve constant inlet and outlet pressures on pumped pressure boosting systems.
- To reduce the water consumption.

Dimensions and Ordering Information



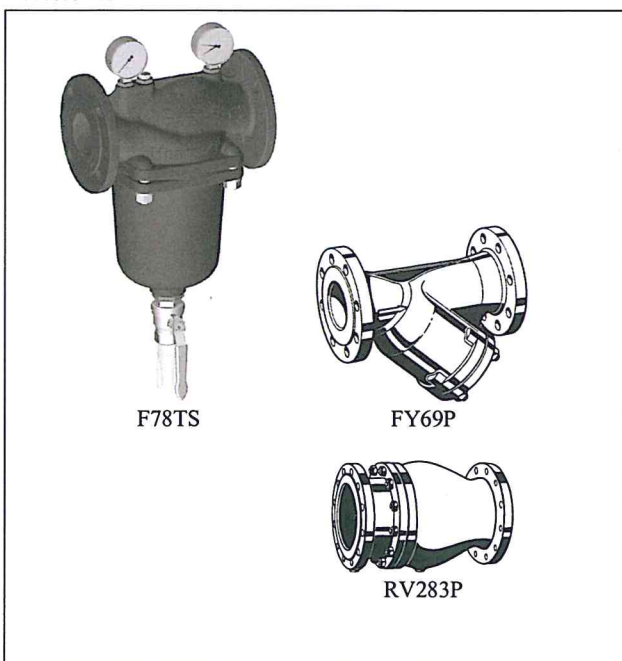
D15SI- ... A = With flanges PN 16, ISO 7005-2, EN 1092-2, face to face length acc. EN558-1
 Housing made of ductile cast iron (EN-GJS-400-15 EN1563), coated with Blue Epoxy Coating

Figure 2: Dimensions

Connection size	DN	65	80	100
Nominal size	Inch	2 1/2"	3"	4"
Weight	approx. kg	30.5	32	34.5
Dimensions (mm)	L	290	310	350
	H	370	370	370
	h	93	100	110
	F*	185	200	220
kvs-value	m3/h	49	51	56

* F = width

Accessories



RV283P Check valve

Grey cast iron housing, powder coated inside and outside. DIN/DVGW tested in compulsory test sizes
 DN 65, DN 80 and DN 100

FY69P Strainer

With double mesh, grey cast iron housing, powder coated inside and outside.
 A = Mesh size approximately 0.5 mm

F78TS Reverse-rinsing filter

Ductile iron housing and filter bowl. Available in sizes DN 65 to DN 100, with filter mesh sizes 20 µm, 50 µm, 100 µm or 200 µm

Figure 3: Accessories

Spare Parts

Pressure Reducing Valve D15SI, from 2016 onwards

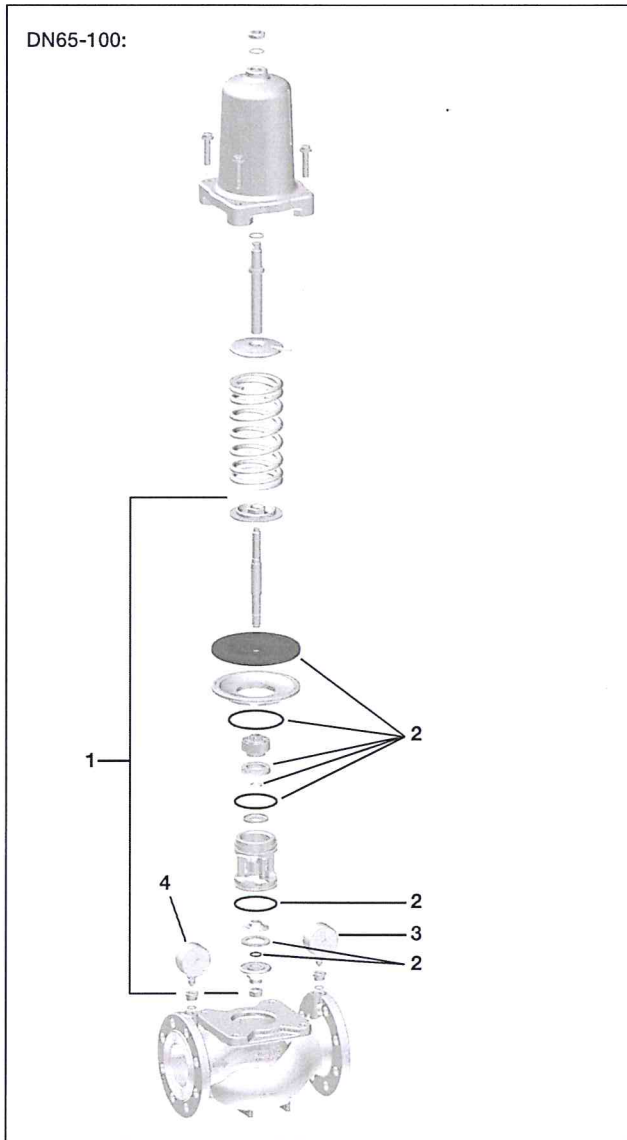


Figure 4: Spare parts

No.	Description	Dimension	Part No.
1	Valve insert complete	DN65-100	0904122
2	Set of seals complete	DN65-100	0904121
3	Pressure gauge Ranges 0 - 10 bar		M39M-A10
4	Pressure gauge Ranges 0 - 16 bar		M39M-A16

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Manufactured for and on behalf of the

Environmental and Combustion Controls Division of Honeywell

Technologies Sàrl, Rolle, Z.A. La Pièce 16, Switzerland by its Authorised

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EN0H-1059GE23 R0316

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