

Honeywell

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Gas pressure regulators J78R, 60DJ Z

Technical Information · GB

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- Pressure regulators for gaseous media for installation in all types of gas appliances
- Inlet pressure compensation diaphragm in J78R ensures high control accuracy
- Breather line is not required
- EC type-tested and certified



CE

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1 Application



J78R for use in gas trains, for example

For controlling the pressure of the gas or air supply to gas burners and gas appliances. An optional connection for pilot gas lines or pressure test points is available for the inlet of the J78R.

The pressure regulators comply with the requirements of EN 88, Class A, Group 2.



60DJ Z is primarily used on pilot burners

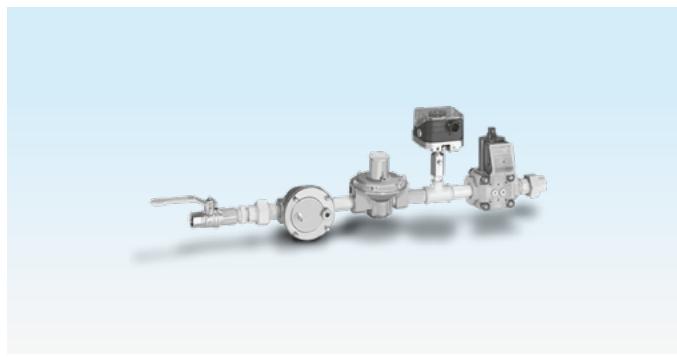
1.1 Examples of application

1.1.1 Atmospheric surface burner



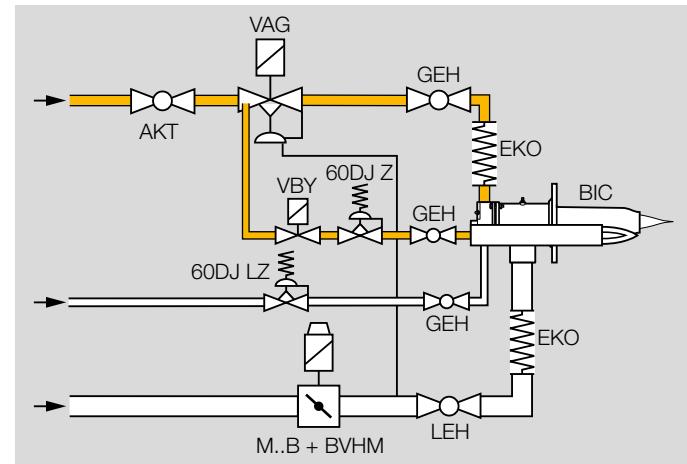
To maintain a constant gas pressure on gas surface burners with an inlet pressure of less than 100 mbar.

1.1.2 Gas trains

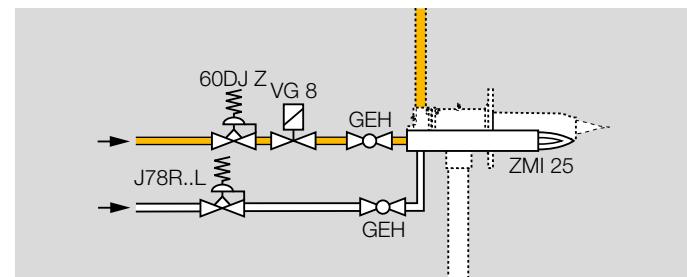


Control of the gas pressure in gas inlet sections up to 100 mbar.

1.1.3 Pilot burner control



The 60DJ Z can be used in the gas circuit to control a pilot burner. For air, use the 60DJ LZ.



Alternatively, pressure regulator J78R..L can be used in the air circuit for higher capacities.

2 Certification

Certificates – see Docuthek.

EU certified pursuant to



Regulation:

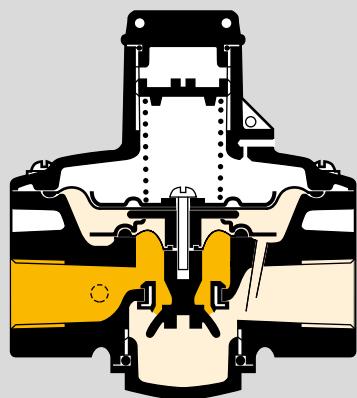
- Gas Appliances Regulation (EU) 2016/426

Standards:

- EN 88-1:2011

3 Function

3.1 J78R



J78R

Spring-loaded pressure regulator with inlet pressure compensation diaphragm and zero shut-off

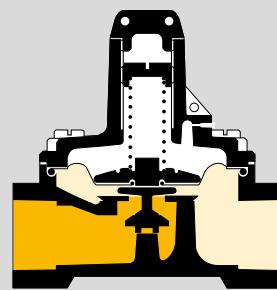
The outlet pressure is maintained constant despite changing gas flow rates, depending on the setting of the setpoint spring. Different springs can be used to obtain various outlet pressure ranges.

The inlet pressure compensation diaphragm ensures high control accuracy with changing supply pressures.

The zero shut-off limits an increase in the outlet pressure when the consumer is switched off.

A breather line is not required.

3.2 60DJ Z



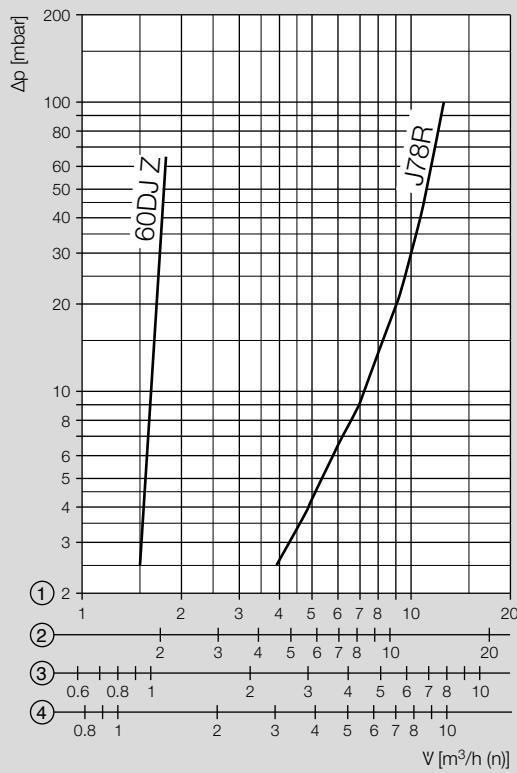
60DJ Z

Spring-loaded pressure regulator

The outlet pressure is maintained constant despite changing gas flow rates, depending on the setting of the setpoint spring.

A breather line is not required.

4 Flow rate



① = Gaz Naturel, $d_V = 0,62$

② = Gaz de Ville, $d_V = 0,45$

③ = Gaz de pétrole liquéfié, $d_V = 1,56$

④ = Air, $d_V = 1,00$

5 Selection

5.1 Selection table

5.1.1 J78R

Type	0	1	-L
J78R	●	●	●

● = standard, ○ = available

Order example

J78R 0

5.1.2 60DJ

Type	L	Z
60DJ	●	●

● = standard, ○ = available

Order example

60DJ Z

5.2 Type code

5.2.1 J78R

Code	Description
J78R	Gas pressure regulator
0	No measuring connection
1	Screw plug at the inlet
-L*	For air only (without approval)

* If "none", this letter is omitted.

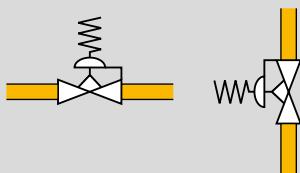
5.2.2 60DJ

Code	Description
60DJ	Gas pressure regulator
L*	For air only (without approval)
Z	Set to 80 mbar

* If "none", this letter is omitted.

6 Project planning information

6.1 Installation



Installation position: spring dome in the vertical upright position or tilted up to the horizontal, not upside down.

Install the unit free of mechanical stress and so that it is not in contact with masonry (min. distance 20 mm).

Ensure that there is sufficient space for changing the spring.

Do not store or install the unit in the open air.

Sealing material and dirt, e.g. thread cuttings, must not be allowed to get into the regulator housing.

Install a filter (GFK) upstream of every system.

7 Technical data

Types of gas: town gas, natural gas, LPG (gaseous) and biologically produced methane, J78R..L and 60DJ LZ for air only.

Inlet pressure p_u : up to 100 mbar.

Pressure regulators according to EN 88, Class A, Group 2.

Ambient temperature: -20 to +60°C (-4 bis +140 °F).

No condensation permitted.

Long-term use in the upper ambient temperature range accelerates the ageing of the elastomer materials and reduces the service life (please contact manufacturer).

Storage and transport temperature:

-20 to +40 °C (-4 to +104 °F).

Housing: aluminium,

diaphragms: NBR.

J78R

Measuring connection with screw plug Rp 1/8 at the inlet on the right-hand side (option).

Outlet pressure p_d : 6 – 55 mbar.

The outlet pressure p_d is adjusted by inserting different springs, see spring table. It is pre-set at the factory to 20 mbar (black spring).

Weight: 0.52 kg.

Connecting thread: Rp 1/2 to ISO 7-1, DN 15.

Valve seat: NBR,
valve disc: POM.

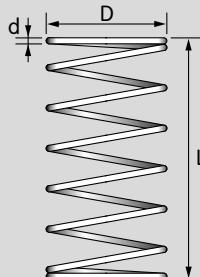
60DJ Z

Outlet pressure p_d : 35 – 90 mbar, set to 80 mbar.

Weight: 0.11 kg.

Connecting thread: Rp 1/4 to ISO 7-1, DN 8.

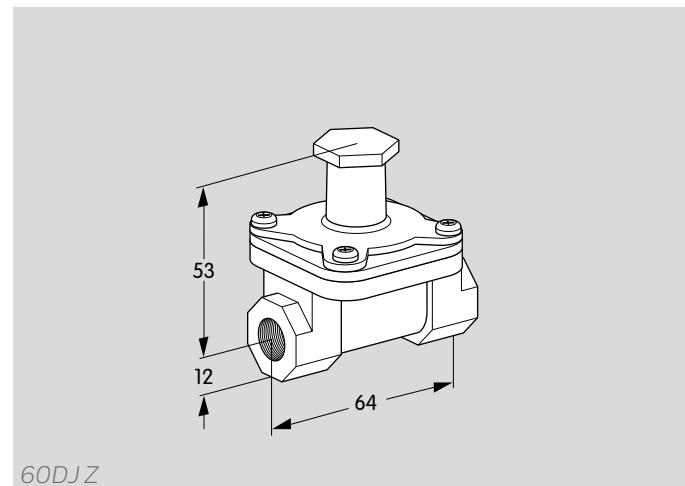
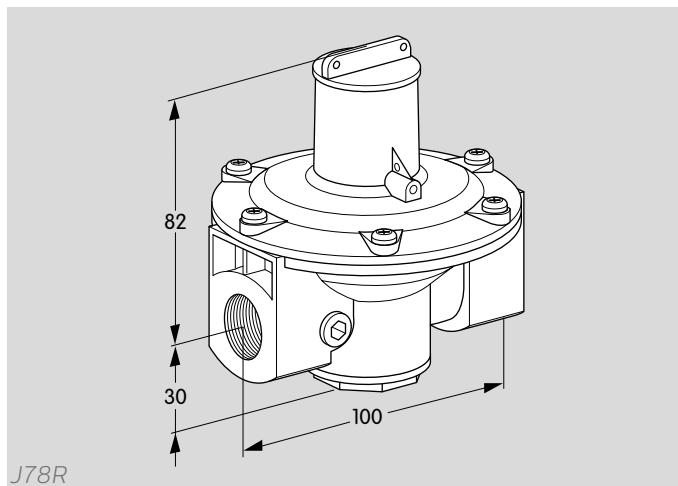
7.1 Spring table J78R



Outlet pressure range p_d mbar	Marking	D mm	d mm	L mm	Coils	Order No.
6 - 9	green/red	21.8	1.20	40.3	12,5	03089041
9 - 17	yellow	21.8	1.22	42.1	10,0	03089042
15 - 23*	black	21.6	1.22	54.4	11,5	03089043
22 - 31	orange	21.8	1.22	63.5	11,0	03089044
31 - 42	brown	22.0	1.32	65.1	10,5	03089045
42 - 55	light green/light blue	20.9	1.42	40.0	6,5	03089047

* Standard spring

7.2 Dimensions



7.3 Converting units

see www.adlatus.org

8 Maintenance cycles

At least once a year, twice a year in the case of biogas.

Feedback

Finally, we are offering you the opportunity to assess this “Technical Information (TI)” and to give us your opinion, so that we can improve our documents further and suit them to your needs.

Clarity

- Found information quickly
- Searched for a long time
- Didn't find information
- What is missing?
- No answer

Comprehension

- Coherent
- Too complicated
- No answer

Scope

- Too little
- Sufficient
- Too wide
- No answer



Use

- To get to know the product
- To choose a product
- Planning
- To look for information

Navigation

- I can find my way around
- I got “lost”
- No answer

My scope of functions

- Technical department
- Sales
- No answer

Remarks

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