

HONEYWELL ELSTER JEAVONS J90 MKII

80mm Commercial / Industrial
Meter Service Regulator

Brief information

Operation: The J90 is a dedicated angle regulator designed to give accurate control, even at low pressure drops, with excellent reliability. The J90 is available in sizes 1¼", 2" and 3" (80mm) sizes. The smaller sized units (up to 2") being described in a separate leaflet.

Application The 80mm J90 MkII is specifically designed to be used as a meter service regulator for large commercial and industrial applications. It complies with the Essential Requirements of the European Gas Appliance Regulation (EU) 2016/426(GAR). All units are designed for natural, liquefied petroleum and manufactured gases.

The J90 MkII has positive lock up and has been designed for high efficiency and sensitivity with maximum flow and minimum pressure loss.

Control: A comprehensive range of springs is available, as described overleaf. The outlet pressure can be easily and accurately adjusted by turning the spring adjustment unit located under the top cap.

If required the units can be supplied factory set with a security seal at extra cost.

Variants: Available for fitment to the:

- G40 (U65) diaphragm meter with flow rate up to 65m³/hr. and the G65 (U100) diaphragm meter with a flow rate up to 100m³/hr. Identified with a red dust cap over the vent.
- G100 (U160) diaphragm meter with a flow rate up to 160m³/hr. Identified with a blue dust cap over the vent.

Technical Data:

Maximum inlet pressure: 350mbar (5 psig)

Maximum Outlet Pressure: 75mb (30"wg)

Servicing: The J90 has been designed for ease of access, inspection and servicing of all internal components. A standard soft spares kit is available.

Reference Number: SK9011-01

Weight: 14 Kg

Quality:

Honeywell is committed to a programme of continuous quality enhancement. All equipment designed and manufactured by Honeywell benefits from the group's quality assurance standards which are approved to EN ISO9001.



FEATURES & BENEFITS

Main Features

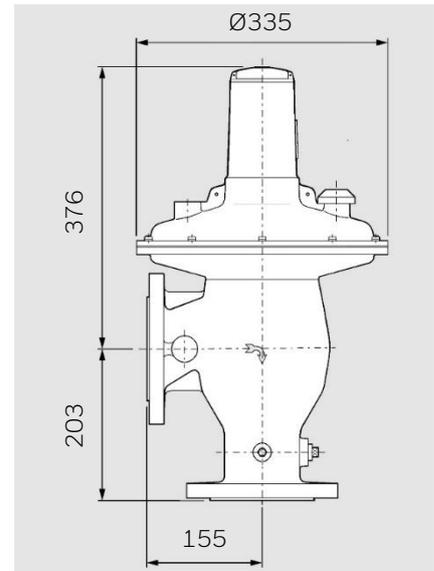
- Sizes 1¼", 2" and 80mm (for 1¼" and 2" see separate leaflet)
- Temperature range: -20°C to +70°C
- Flanged to BS EN 1092-2 NP16. Other sizes only available with threaded connections to BS EN 10226 (ISO 7).
- Designed to match G40, G65 & G100 meters (a special adaptor flange is required for fitment to the G100 meter).
- Fully inlet pressure balanced.
- Full lock-up capability.
- Internal impulse.
- Spring loaded.
- Excellent outlet pressure control.

J90: meter Service Regulator

Material Specifications

A summary of the material specification for the J90 is given for reference. All material has been selected to provide maximum durability and reliability in service.

Components	Specification
Body, diaphragm case, top cover, top cap, valve disc holder, valve disc clamping washer.	Aluminium Alloy
Valve spindle, spring adjusting screw, diaphragm spacer, diaphragm plates, reinforcing plate, secondary diaphragm washer.	Mild steel
Spring holder	Brass
Main diaphragm, secondary diaphragm.	Fabric reinforced Nitrile (Buna)
Valve discs, "O" rings	Nitrile (Buna)
Springs	Carbon Steel

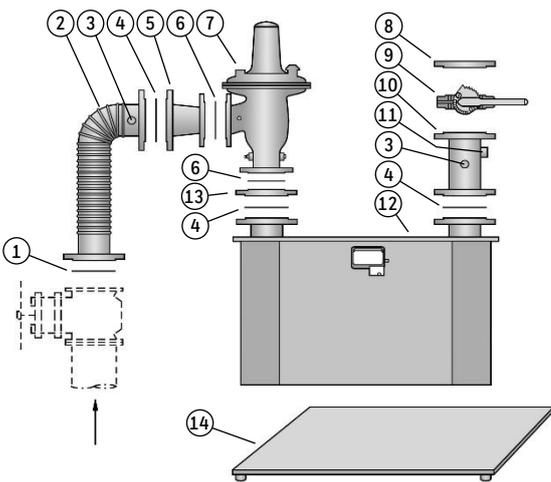


Loading Springs

Spring Range		Part Number	Colour Code
mbar	"wg		
6 – 15	2.6 – 6	J4811-020	White / Yellow
12.5 – 25	5 – 10	J4811-021	White / Black
23 – 38	9 – 15	J4811-022	White / Orange
35 – 50	14 – 20	J4811-028	White / Brown
45 – 75	18 – 30	J4811-029	White

IGEM/GM/6 INSTALLATIONS

In order to comply with the above standard while installing the J90 regulator with a U160 meter, the following design should be used:



ITEM REF.	ITEM DESCRIPTION	QTY
1	Gasket suitable for 100 mm BS EN 1092-1 PN16	1
2	100 mm BS EN 1092-1 PN16 swivel flanged x 100 mm flanged BS EN 1092-1 PN16 600 mm long flexible metallic connection	1
3	1/2" x 3/8" BS EN 10226 bush with 1/8" BS EN 10226 plug or test point	2
4	Gasket suitable for 100 mm BS EN 1092-1 PN16	3
5	100 mm BS EN 1092-1 PN16 x 80 mm BS EN 1092-1 PN16 reducer <i>Note: Items 2 and 5 can be combined.</i>	1
6	Gasket suitable for 80 mm BS EN 1092-1 PN16	2
7	80 mm flanged Elster Jeavons J90 MkII regulator. Approved to IGEM/GM/PRS/33 for flow rates to 160 m ³ /h	1
8	100 mm BS EN 1092-1 PN16 blank flange	1
9	100 mm BS EN 1092-1 PN16 lugged wafer butterfly valve to BS EN 593 <i>Note: Alternative valves are acceptable, see clause 9.4.1</i>	1
10	100 mm BS EN 1092-1 PN16 fixed flange x 100 mm BS EN 1092-1 PN16 swivel flange spool piece complete with 1/2" & 3/4" BS EN 10226 welded sockets	1
11	3/4" BS EN 10226 plug	1
12	Honeywell BK-G100/U160 Diaphragm Meter	1
13	100 mm BS EN 1092-1 PN16 x 80 mm BS EN 1092-1 PN16 reducer or cheater plate	1
14	Meter shelf/plinth (if required)	1

Note 1: Emergency control valve provided by gas transporter.

Note 2: Components need to meet the pressure drop requirements of the Standard (Clauses 8.4.3 and 8.5.3).

For more information

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