# J48

# Gas Pressure Regulator Inlet Pressure 5 psig Nominal Diameter 2½" - 6"

### **Applications**

- Industrial
- Commercial

#### **Brief information**

**Operation:** The J48 is a highly versatile proven range of Industrial Low Pressure Regulators, suitable for a wide range of pressure reduction applications. The J48 is available in sizes from  $\frac{1}{2}$ " to 3", the smaller sized units (up to 2") being described in a separate leaflet.

**Application:** The J48 is a service and appliance regulator suitable for a wide range of domestic, commercial and industrial applications. All units are designed for natural, liquefied petroleum and manufactured gases.

The J48 can be installed in both horizontal and vertical pipelines, with certain sizes available with angled connections for meter services applications. The J48 has positive lock up.

**Control:** A comprehensive range of loading 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.

**Technical Data:** Maximum inlet pressure: 5 psig

Maximum outlet Pressure: Low Pressure Version: 30"wc High Pressure Version: 40"wc

#### **Approvals**

Jeavons J48 Series models are AGA / CGA approved to the following specifications:

CGA 6.3 - M95 / ANSI Z21.18 - 1995 CGA 6.3a - M98 / ANSI Z21.18a - 1998 CGA 6.3b - M100 / ANSI Z21.18b - 2000

**Servicing:** The J48 has been designed for ease of access, inspection and servicing of all internal components. A standard soft spares kit is available for all sizes.

2½ " and 3 " reference number 52980K006



#### Main features

- Sizes 2½" screwed and 3" screwed or flanged (for ¾" – 2" see separate leaflet)
- Temperature range -4°F to +158°F
- Threaded connections to NPT (other threads may be available upon request)
- Flanged connections to ANSI125 (other flanges may be available upon request)
- Fully inlet pressure balanced
- Full lock-up capability
- Internal impulse
- Spring loaded
- Excellent outlet pressure control



## J48: Low Pressure Regulator **Regulating Capacities**

All capacities in SCFH 0.64 s.g.

Setting Flow Rate: 688 SCFH

REGULATOR SIZE: 21/2"				OUTLET PRESSURE SETTING ("wc) / DROOP (%)								
	4	<b>,</b> "	7	<b>,</b> , , , , , , , , , , , , , , , , , ,	3	)"	1	]"	2	0"	3.	4"
	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%
Pin "wc												
6	2931	4908	-	-	-	-	-	-	-	-	-	-
8	3001	4979	3673	6312	-	-	-	-	-	-	-	-
10	3355	5509	3885	7169	4167	7769	-	-	-	-	-	-
Pin PSIG												
0.50	3461	5792	4697	7769	4909	8511	4591	8758	-	-	-	-
0.75	4026	6109	5439	8440	5615	8793	5862	10029	6145	10428	-	-
1.00	4167	6675	5933	9005	6109	9464	6463	10524	6886	12396	-	-
1.50	4803	6180	6039	9358	6321	9747	6816	10983	7346	13879	8935	18470
2.00	5403	6357	6215	10347	6463	10383	7063	11160	7699	9747	9994	20977
3.00	6498	7204	6710	8334	6816	10700	6004	11654	8687	14691	12148	21366

**REGULATOR SIZE: 3"** 

5.00

OUTLET PRESSURE SETTING ("wc) / DROOP (%)

Setting Flow Rate: 688 SCFH

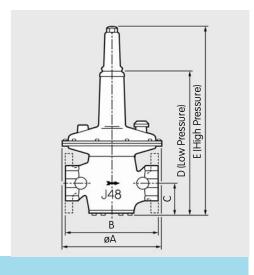
7" 4" 8" 11" 20" 34" 20% 10% 20% 10% 20% 10% 20% 10% 20% 10% 10% 20% Pin "wc Pin PSIG 0.50 0.75 -1.00 1.50 2.00 3.00 5.00  The tests are performed with the regulator set at a constant inlet pressure, a predetermined flow rate and the required outlet pressure. The flow rate is then increased whilst keeping the inlet pressure constant. The capacities are recorded when the outlet pressure has fallen by 10% and 20% from the set point.

The capacities on the previous pages are given in SCFH of natural gas (0.64 SG). For other gases multiply the capacity by:

Γ	0.64			
$\sqrt{}$	gas sg			

GAS	SG
Air	1.00
Towns Gas	0.50
Propane	1.53
Propane / Air	1.20

Dimensions and Weights								
SIZE	А	В	С	D	E	Weight (Kg)		
21/2"	335	310	107	482	678	12.0		
3″	335	310	107	482	678	12.0		



#### **Material Specifications**

A summary of the material specification for the J48 is given for reference. All material has been selected to provide maximum durability and reliability in service.

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

### **Quality:**

Elster Jeavons is committed to a programme of continuous quality enhancement. All equipment designed and manufactured by the Elster-Instromet group benefits from the group's quality assurance standards which are approved to EN ISO9001:2000.

Loading Springs							
	Spring Range ("wc)	Part No.	Color Code				
	2.6 – 6	J4811-020	White / Yellow				
sure	5 - 10	J4811-021	White / Black				
Low Pressure	9 – 15	J4811-022	White / Orange				
Low	14 – 20	J4811-028	White / Brown				
	18 - 30	J4811-029	White				
High Pressure	28 - 40	J4811-030	White / Red				
Hi	40 – 60	J4811-031	White / Gray				

#### Contact

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