Honeywell

J481EN | 08 | 01/17

Elster Jeavons J48

Industrial / Commercial Gas pressure regulator for inlet pressures up to 350mbar

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 latest version of the regulator includes a new quick release spring adjustment mechanism unit. This enhancement provides easy access for spring adjustment and routine maintenance. The J48 is available in sizes from ³/₄" to 6", the larger sized units from 2½" 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, 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. The design of this mechanism provides virtually frictionless adjustment and eliminates "spring wind up". The complete spring adjustment mechanism can be removed easily for maintenance and spring changes. If required the units can be supplied factory set with a security seal at extra cost.

Approvals: The J48 range is approved to EN88-1 Class A2. They are also 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

Technical Data: Maximum inlet pressure: 350mbar (5 psig)

Maximum outlet Pressure: 160mbar (64"wg)

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.

 $^{3}/_{4}$ " - 1" reference number SK4806-01 $^{1}/_{4}$ " - $^{1}/_{2}$ " reference number SK4808-01 2 " reference number SK4809-01.



FFATURES & BENEFITS

Main Features

- Sizes 3/4", 1", 11/4", 11/2" & 2" (for 21/2" 6" see separate leaflet)
- Temperature range -20°C to +70°C
- Threaded connections to BS EN 10226 (ISO 7) or NPT (other threads may be available upon request)
- Fully inlet pressure balanced.
- Full lock-up capability.
- Internal impulse.
- Spring loaded.
- Quick release spring adjustment.
- Excellent outlet pressure control.

SCE SYSTEM CONTROL

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Regulating Capacities

All capacities in SCMH 0.64 s.g.

REGULATOR SIZE: 3/4" OUTLET PRESSURE SETTING (mbar) / DROOP (%)

Setting Flow Rate: 2.8 SCMH Lock-up: SG30

	1	0	2	0	3	0	4	.0	5	5	7	0	9	0	13	30
	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%
Pin mbar																
15	9.0	16.5	_	-	-	-	_	-	-	-	-	_	-	-	_	-
20	10.3	17.5	-	-	-	-	-	-	-	-	-	-	-	-	-	_
30	11.6	21.1	14.9	27.8	-	-	-	-	-	-	-	-	-	-	-	-
50	16.2	29.1	19.6	34.8	26.5	41.2	25.0	34.8	-	-	-	-	-	-	-	-
100	24.7	31.2	25.5	46.9	36.6	60.5	41.7	62.3	44.3	59.5	48.9	56.7	33.2	-	-	-
150	29.6	35.3	26.3	43.8	46.9	63.4	45.6	78.6	46.9	78.3	63.9	80.4	53.1	69.5	-	-
200	35.0	40.4	29.4	50.5	45.1	65.7	48.7	89.4	51.0	95.6	77.8	100.4	61.3	95.3	51.0	82.9
250	38.6	45.8	29.9	50.7	45.1	72.1	52.8	100.4	54.9	106.1	81.1	110.7	65.7	109.5	60.5	101.7
300	41.2	46.4	30.4	51.0	45.8	79.8	54.1	109.5	57.9	112.0	83.2	126.2	66.4	121.1	66.7	117.4
350	46.4	50.0	30.9	52.5	46.9	83.4	54.3	115.9	62.6	121.1	83.2	133.9	65.9	138.8	68.3	132.6

REGULATOR SIZE: 1"

OUTLET PRESSURE SETTING (mbar) / DROOP (%)

Setting Flow Rate: 2.8 SCMH Lock-up: SG30

	1	0	2	0	3	0	4	·O	5	5	7	0	9	0	1	30
	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%
Pin mbar																
15	11.6	23.7	_	-	-	-	-	-	-	_	-	-	-	-	-	-
20	11.1	27.0	_	-	-	-	-	-	-	_	-	-	-	-	-	-
30	13.1	36.1	20.61	30.9	-	-	-	-	-	_	-	-	-	-	-	-
50	18.3	37.9	34.8	51.5	37.6	48.9	32.5	41.2	-	-	-	-	-	-	-	-
100	20.9	39.7	52.5	85.0	51.5	77.3	46.4	77.3	64.4	70.8	54.1	70.8	42.5	-	-	-
150	20.9	41.7	68.3	109.5	63.4	105.6	55.4	108.2	77.5	101.5	86.5	96.6	77.3	87.6	-	-
200	23.7	43.8	83.4	133.9	69.5	126.2	62.8	136.5	82.4	126.2	112.0	123.6	103.0	114.6	69.0	101.7
250	26.3	45.1	88.6	136.5	73.7	139.1	70.8	154.5	90.1	154.5	137.8	152.0	122.3	139.1	91.2	127.5
300	22.4	46.9	46.4	61.8	83.2	160.1	75.2	162.7	97.9	166.5	159.7	160.1	130.1	148.5	103.0	135.6
350	20.6	47.1	47.4	59.2	87.6	166.5	82.4	166.5	108.2	174.3	167.8	167.8	152.0	162.7	117.4	158.8

REGULATOR SIZE: 11/4"

OUTLET PRESSURE SETTING (mbar) / DROOP (%)

Setting Flow Rate: 4.2 SCMH Lock-up: SG30

	1	0	2	0	3	0	4	0	5	5	7	0	9	0	1	.30
	10	20	10	20	10	20	10	20	10	20	10	20	10	20	10	20%
Pin mbar																
15	22.	41.0	-	-	-	-	-	_	-	-	-	-	-	-	-	-
20	33.	54.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	39.	67.0	47.4	78.3	-	-	-	-	-	-	-	-	-	-	-	-
50	51.	93.5	71.9	109.7	76.0	98.4	-	_	-	-	-	-	-	-	-	-
100	56.	100.4	120.0	145.9	120.5	164.0	121.1	165.2	135.0	148.5	108.4	144.6	-	-	-	-
150	68.	145.3	145.8	167.8	160.5	194.9	154.9	210.4	151.0	201.4	143.3	180.7	142.0	170.4	-	-
200	72.	146.0	157.5	187.2	166.5	215.6	173.0	229.8	178.2	245.3	180.7	237.5	171.7	225.9	149.8	195.6
250	90.1	154.9	171.7	197.5	175.6	232.4	192.4	244.0	191.1	271.1	196.2	287.9	196.2	267.2	184.5	237.5
300	110.7	161.4	176.9	219.5	183.3	251.7	216.9	268.5	200.1	289.2	216.9	308.5	227.2	304.7	205.3	286.6
350	119.8	167.8	179.4	224.6	187.2	264.7	237.5	290.5	215.6	308.5	232.4	312.4	247.9	316.3	225.9	316.3





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Regulating Capacities

All capacities in SCMH 0.64 s.g.

REGULATOR SIZE: 11/2" OUTLET PRESSURE SETTING (mbar) / DROOP (%)

Setting Flow Rate: 4.2 SCMH Lock-up: SG30

															20011 0	p. 5050
	1	0	2	0	3	0	4	0	5	5	7	0	9	0	13	30
	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%
Pin mbar																
15	26.0	48.9	-	-	-	-	_	-	_	_	-	-	-	-	-	-
20	38.6	54.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	46.4	67.0	61.8	72.1	-	-	-	-	-	-	-	-	-	-	-	-
50	62.8	104.3	97.9	123.6	90.1	117.2	-	-	-	-	-	-	-	-	-	-
100	92.7	124.9	142.0	161.4	141.7	193.6	167.8	192.4	154.5	170.4	144.2	171.7	-	-	-	-
150	113.3	144.2	154.9	184.6	167.8	225.9	185.9	231.1	180.7	213.0	160.1	214.3	153.6	194.9	-	-
200	157.5	154.9	183.3	238.8	187.2	244.0	218.2	276.3	206.6	271.1	194.9	263.4	194.9	254.3	-	-
250	173.0	166.5	206.6	258.2	213.0	265.9	249.2	321.5	220.8	311.1	215.6	308.5	222.1	300.8	170.4	219.5
300	178.2	179.4	215.6	264.7	227.2	278.9	267.2	348.6	236.3	349.9	224.6	348.6	238.8	336.9	207.9	271.1
350	187.2	196.2	222.1	276.3	241.4	290.5	284.0	374.4	244.0	374.4	237.5	375.7	255.6	375.7	247.9	330.5

REGULATOR SIZE: 2" OUTLET PRESSURE SETTING (mbar) / DROOP (%)

Setting Flow Rate: 4.2 SCMH Lock-up: SG30

													LOCK	ap. 3030
	1	0	2	0	3	0	4	0	5	5	7	0	9	0
	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%	10%	20%
Pin mbar														
15	42.0	119.8	-	-	-	-	-	-	-	-	-	-	-	-
20	59.2	109.7	_	-	-	-	-	-	-	-	-	_	-	-
30	82.4	133.6	87.6	149.8	-	-	-	-	_	_	_	_	-	-
50	107.1	187.6	158.3	210.9	144.6	182.0	-	-	-	-	-	-	-	-
100	120.1	240.6	228.0	308.9	232.4	326.6	208.1	296.9	222.8	258.8	272.6	259.6	-	-
150	147.7	253.3	275.0	389.9	278.9	379.6	290.9	369.2	257.2	339.4	307.4	306.6	233.2	391.1
200	157.1	262.5	301.3	424.1	307.3	431.2	327.9	417.0	311.8	396.7	370.8	390.5	345.2	381.9
250	165.9	262.1	316.2	455.7	330.5	475.1	363.3	471.2	365.5	450.3	416.7	432.7	412.3	425.5
300	167.2	262.1	324.2	393.5	371.8	451.8	381.2	485.4	377.2	471.2	457.9	469.4	372.7	453.7
350	182.4	263.4	314.9	392.2	413.1	454.4	401.4	500.9	401.1	501.6	475.0	495.6	382.9	491.0

The above 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 SCMH of natural gas (0.64 SG).

For other gases multiply the capacity by:

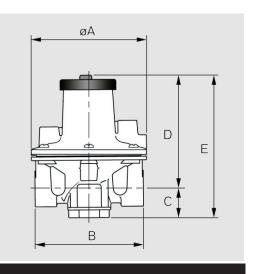
$$\sqrt{\frac{0.64}{\text{gas sg}}}$$

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



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Dimension	s and W	/eights				
SIZE	А	В	С	D	Е	Weight (Kg)
3/4" & 1"	134	125	34	132	166	1.0
11/4" & 11/2"	185	155	45	149	194	1.9
2"	234	200	52	167	219	3.1



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.

Components	Specification
Body, cover, spring adjusting bush, spring adjusting screw and bottom plug.	Aluminium Alloy
Top cap, locking lever, spring holder, diaphragm spacer, valve spacer, valve disc holder and impulse tube.	Acetal Resin (Top cap and locking lever UV stabilised)
Diaphragm plate.	Mild steel
Main diaphragm, secondary diaphragm, valve disc & "O" rings.	Nitrile (Buna)
Springs	Carbon Steel

Quality:

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

Loading Springs

All springs are colour coded for ease of identification.

Spring Range mbar	3/4" & 1"	11/4" & 11/2"	2"
5 - 15	J4806-146	J4808–102	J4809-081
	Dark Green / Light Blue	Black / Light Blue	White/Brown
12.5 – 25	J4806-004	J4808-103	J4809-082
	Black	Black / Light Green	White / Dark Blue
22.5 – 35	J4806-147	J4808-104	J4809-083
	Dark Green / Brown	Silver/Orange	White / Dark Green
30 - 50	J4806-148	J4808-105	J4809-084
	Dark Green / Orange	Black/Brown	White / Red
45 - 65	J4808-103	J4808-031	J4809-085
	Black / Light Green	Red / Gold	White/Orange
60 - 80	J4808-008	J4808-106	J4809-025
	Red / Orange	Black/Orange	Dark Blue / Grey
75 – 100	J4806-079	J4808-075	J4809-065
	Pink/Gold	Pink/Silver	Grey/Gold
100 – 160	J4808-077 Yellow/Orange	J4809-065 Grey / Gold	-



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Ordering Information

J0005-015	Part Number	Description	AGA Number
JUDIOS-025 J48 3/4IN REG 12.5-25MBAR AG2232 JUDIOS-035 J48 3/4IN REG 25-55MBAR AG2232 JUDIOS-065 J48 3/4IN REG 45-65MBAR AG2232 JUDIOS-075 J48 3/4IN REG 60-80MBAR AG2232 JUDIOS-100 J48 3/4IN REG 15-100MBAR AG2232 JUDIOS-100 J48 3/4IN REG 15-100MBAR AG2232 JUDIOS-101 J48 1/4IN REG 15-15MBAR AG2232 JUDIOS-102 J48 1IN REG 15-15MBAR AG2232 JUDIOS-075 J48 1IN REG 32-55MBAR AG2232 JUDIOS-035 J48 1IN REG 30-50MBAR AG2232 JUDIOS-035 J48 1IN REG 30-50MBAR AG2232 JUDIOS-035 J48 1IN REG 30-50MBAR AG2232 JUDIOS-0405 J48 1IN REG 30-50MBAR AG2232 JUDIOS-0405 J48 1IN REG 30-50MBAR AG2232 JUDIOS-0406 J48 1 IN REG 15-15MBAR AG2232 JUDIOS-0406 J48 1 IN REG 15-15MBAR AG2232 JUDIOS-0407 J48 1 IN REG 15-5MBAR AG2232 JUDIOS-0408 J48 1.1/4IN REG 15-5MBAR AG2232 JUDIOS-050 J48 1.1/4IN REG 30-50MBAR AG2232 JUDIOS-050 J48 1.1/4IN REG 30-80MBAR AG2232 JUDIOS-050 J48 2IN REG 32-55MBAR AG2232 JUDIOS-050 J48 2IN REG 30-50MBAR AG22		Description	
JUDIOS-035 J48 3/4IN REG 22.5-35MEAR AG2232 JUDIOS-0666 J48 3/4IN REG 60-80MBAR AG2232 JUDIOS-075 J48 3/4IN REG 60-80MBAR AG2232 JUDIOS-160 J48 3/4IN REG 75-100MBAR AG2232 JUDIOS-160 J48 3/4IN REG 75-100MBAR AG2232 JUDIOS-160 J48 3/4IN REG 15-5MBAR AG2232 JUDIOS-015 J48 11N REG 15-5MBAR AG2232 JUDIOS-015 J48 11N REG 15-5MBAR AG2232 JUDIOS-015 J48 11N REG 15-5MBAR AG2232 JUDIOS-035 J48 11N REG 30-50MBAR AG2232 JUDIOS-0405 J48 11N REG 30-50MBAR AG2232 JUDIOS-050 J48 11N REG 30-50MBAR AG2232 JUDIOS-050 J48 11N REG 30-50MBAR AG2232 JUDIOS-050 J48 11N REG 30-50MBAR AG2232 JUDIOS-100 J48 11N REG 30-50MBAR AG2232 JUDIOS-101 J48 11N REG 30-50MBAR AG2232 JUDIOS-102 J48 1.1/4IN REG 30-50MBAR AG2232 JUDIOS-103 J48 1.1/4IN REG 30-50MBAR AG2232 JUDIOS-105 J48 1.1/4IN REG 30-50MBAR AG2232 JUDIOS-050 J48 2IN REG 45-55MBAR AG2232 JUDIOS-050 J48 2IN REG 45-55MBAR AG2232 JUDIOS-050 J48 2IN REG 30-50MBAR AG2			
J0005-065 J48 3/4IN REG 45-65MBAR AG2232 J0005-100 J48 3/4IN REG 60-80MBAR AG2232 J0005-100 J48 3/4IN REG 75-100MBAR AG2232 J0005-100 J48 3/4IN REG 10-160MBAR AG2232 J0006-015 J48 1IN REG 10-25-26MBAR AG2232 J0006-025 J48 1IN REG 12-5-25MBAR AG2232 J0006-035 J48 1IN REG 30-50MBAR AG2232 J0006-050 J48 1IN REG 30-50MBAR AG2232 J0006-075 J48 1IN REG 30-50MBAR AG2232 J0007-010 J48 1IN REG 100-160MBAR AG2232 J0007-011 J48 1.1 REG 100-160MBAR AG2232 J0007-015 J48 1.1/4IN REG 12.5-25MBAR AG2232 J0007-026 J48 1.1/4IN REG 22.5-35MBAR AG2232 J0007-035 J48 1.1/4IN REG 30-50MBAR AG2232 J0007-065 J48 1.1/4IN REG 45-5MBAR AG2232 J0007-076 J48 1.1/4IN REG 45-5MBAR AG2232 J0007-079 J48 1.1/4IN REG 60-80MBAR AG2232 J0007-080 J48 1.1/4IN REG 60-80MBAR AG2232 J0008-050 <td></td> <td></td> <td></td>			
J0005-075 J48 3/4IN REG 60-80MBAR AG2232 J0005-100 J48 3/4IN REG 75-100MBAR AG2232 J0005-160 J48 3/4IN REG 10-160MBAR AG2232 J0006-015 J48 1IN REG 5-15MBAR AG2232 J0006-025 J48 1IN REG 12.5-25MBAR AG2232 J0006-035 J48 1IN REG 30-50MBAR AG2232 J0006-050 J48 1IN REG 30-50MBAR AG2232 J0006-100 J48 1IN REG 60-80MBAR AG2232 J0006-100 J48 1IN REG 57-100MBAR AG2232 J0007-015 J48 1.1/4IN REG 51-5MBAR AG2232 J0007-025 J48 1.1/4IN REG 52-5MBAR AG2232 J0007-035 J48 1.1/4IN REG 22-5MBAR AG2232 J0007-050 J48 1.1/4IN REG 22-5MBAR AG2232 J0007-051 J48 1.1/4IN REG 22-5MBAR AG2232 J0007-050 J48 1.1/4IN REG 25-5MBAR AG2232 J0007-051 J48 1.1/4IN REG 30-50MBAR AG2232 J0007-062 J48 1.1/4IN REG 01-6MBAR AG2232 J0007-075 J48 1.1/4IN REG 01-5MBAR AG2232 J0008-076	J0005-035	J48 3/4IN REG 22.5-35MBAR	AG2232
J0005-100 J48 3/4IN REG 75-100MBAR AG2232 J0005-106 J48 1IN REG 5-15MBAR AG2232 J0006-015 J48 1IN REG 125-25MBAR AG2232 J0006-025 J48 1IN REG 125-25MBAR AG2232 J0006-035 J48 1IN REG 22.5-35MBAR AG2232 J0006-076 J48 1IN REG 60-80MBAR AG2232 J0006-100 J48 1IN REG 100-160MBAR AG2232 J0007-015 J48 1.1/IIIN REG 12.5-25MBAR AG2232 J0007-026 J48 1.1/IIIN REG 12.5-25MBAR AG2232 J0007-027 J48 1.1/IIN REG 22.5-35MBAR AG2232 J0007-028 J48 1.1/IIN REG 30-50MBAR AG2232 J0007-030 J48 1.1/IIN REG 32-5-35MBAR AG2232 J0007-060 J48 1.1/IIN REG 35-5MBAR AG2232 J0007-075 J48 1.1/IIN REG 35-5MBAR AG2232 J0007-076 J48 1.1/IIN REG 50-15MBAR AG2232 J0007-100 J48 1.1/IIN REG 60-51MBAR AG2232 J0007-101 J48 1.1/IIN REG 100-150MBAR AG2232 J0008-025 J48 1.1/IIN REG 35-5MBAR AG2232	J0005-065	J48 3/4IN REG 45-65MBAR	AG2232
J0005-160 J48 3/4IN REG 100-160MBAR AG2232 J0006-015 J48 1IN REG 5-15MBAR AG2232 J0006-025 J48 1IN REG 215-25MBAR AG2232 J0006-050 J48 1IN REG 30-50MBAR AG2232 J0006-075 J48 1IN REG 60-80MBAR AG2232 J0006-100 J48 1IN REG 61-510MBAR AG2232 J0007-015 J48 1 I.1/4IN REG 100-160MBAR AG2232 J0007-015 J48 1.1/4IN REG 100-160MBAR AG2232 J0007-025 J48 1.1/4IN REG 12.5-25MBAR AG2232 J0007-035 J48 1.1/4IN REG 30-50MBAR AG2232 J0007-050 J48 1.1/4IN REG 30-50MBAR AG2232 J0007-050 J48 1.1/4IN REG 30-50MBAR AG2232 J0007-060 J48 1.1/4IN REG 30-50MBAR AG2232 J0007-075 J48 1.1/4IN REG 60-80MBAR AG2232 J0007-080 J48 1.1/4IN REG 75-100MBAR AG2232 J0007-100 J48 1.1/4IN REG 75-100MBAR AG2232 J0008-015 J48 1.1/2IN REG 10-160MBAR AG2232 J0008-025 J48 1.1/2IN REG 12-525MBAR AG2232	J0005-075	J48 3/4IN REG 60-80MBAR	AG2232
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