多美時燃氣設備有限公司 DMC GAS EQUIPMENT LIMITED

J125 Service Regulator Inlet Pressure up to 8.6 bar Nominal Diameter 3/4" & 1"



Applications

- Industrial
- Commercial
- Residential

Brief information

Operation: The J125 series provides a full range of regulators for service applications where accurate pressure control is required. The units are ideal for industrial pressure reducing, metering stations and for district distribution. The regulators are designed to maintain high accuracy and efficiency over the inlet pressure range of 70mb - 8.6bar (1-125 PSIG). The 3/4" and 1" sizes are available with screwed

Several orifices are available to cover the full inlet pressure range, together with a comprehensive number of outlet pressure springs.

The unit has been designed for ease of installation and servicing in confined areas. The diaphragm case can be fully rotated and, during inspection and servicing, the

case can be removed without disturbing the pipework.

The J125 can be fitted with a full or limited capacity relief valve. It is recommended that the regulator be fitted with the Jeavons Universal Safety Shut-off Assembly (USSA). This provides over pressure and/or under pressure protection with immediate shut-off at the regulator inlet. It uses well proven principles to give exceptional consistency of operation and an unrivalled insensitivity to nuisance tripping.

Application: All units are suitable for operation on natural, liquid petroleum and manufactured gases. Various versions of this regulator comply with the requirements of BGC/PS/E26, IGE/TD/10, DIN3380, DIN3381, Danish DGP, BS3016 and numerous international specifications. The USSA unit is designed to meet the requirements of the standards BGES/V9, TN02, DIN33822 & DIN3381.

Technical Data:

Maximum inlet pressure: 8.6 Bar (125 psig) 140mbar (64"wg) Maximum outlet Pressure:

OPSS range: 18 - 500mbar (7.5"wg - 7 psig) 8 - 150mbar (3 - 60 "wg) **UPSS** range:

Servicing: The J125 has been designed for ease of access, inspection and servicing of all internal components. A standard soft spares kit is available for all sizes.

J125-S1 & S3 reference number SK2506-15 J125-S2 reference number SK2506-16 J125-S4, S6 & S8 reference number SK2506-17 J125-S5, S7, S9, S10, S11 & S12 reference number SK2506-18 reference number SK2506-20 J125-S13 & S14

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Main features

- Sizes ¾" x ¾" & 1" x 1" (for 11/2" & 2" 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)
- Internal impulse
- · Spring loaded
- · Excellent outlet pressure control

Options

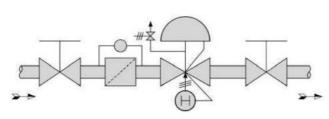
- · Full or limited relief valve
- · Over pressure slam shut
- · Under pressure slam shut
- Pressure test nipple



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J125: Service Regulator

Schematic Installation



Regulator Springs			
mbar	"wg	Part Number	Colour Code
5 - 15	2 - 6	J12506-041	Lt Green / Yellow
12 – 25	4.8 - 10	J12506-042	Lt Green / Black
22 – 35	8.8 – 14	J12506-043	Lt Green / Orange
32 - 50	12.8 - 20	J12506-044	Lt Green / Brown
45 - 75	18 – 30	J12506-045	Lt Green / Red
72 - 140	29 - 56	J12506-046	Lt Green / Dark Blue
OPSS Springs			
mbar	"wg	Part Number	Colour Code
18 – 60	7.5 - 24	J12506-281	Black
50 - 80	20 - 32	J12506-282	Orange
60 - 110	24 - 44	J12506-283	Red
100 - 210	40 - 84	J12506-284	Dark Green
200 - 350	3 – 5 PSI	J12506-287	Yellow
JPSS Springs			
mbar	"wg	Part Number	Colour Code
8 - 16	3 - 6	J12506-285	Light Blue
16 - 60	6 - 24	J12506-286	Brown

J12506-289

Dimensions J125 S1/S2/S3 Screwed J125 S1/S2/S3 Flanged Flanged version shown only for reference J125 S4 - S14 Screwed 110 J125 S4 - S14 Flanged

J125 Versions

60 - 150

The following table indicates the code numbers of the various J125 versions available.

24 - 60

TYPE	Full Capacity	Limited	Over Pressure	Under	Safety	Unit W	eight (Kg)
TIPE	Relief (FR)	Capacity Relief (LR)	Slam Shut (OPSS)	Pressure Slam Shut (UPSS)	Diaphragm	Screwed	Flanged
J125-S1						1.8	4.5
J125-S2	*					1.8	4.5
J125-S3		*				1.8	4.5
J125-S4	*		*			2.3	5.0
J125-S5		*	*			2.3	5.0
J125-S6	*			*		2.3	5.0
J125-S7		*		*		2.3	5.0
J125-S8	*		*	*		2.3	5.0
J125-S9		*	*	*		2.3	5.0
J125-S10			*			2.3	5.0
J125-S11				*		2.3	5.0
J125-S12			*	*		2.3	5.0
J125-S13			*		*	2.3	5.0
J125-S14			*	*	*	2.3	5.0

Purple

J125: Service Regulator

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72 - 140

100

5.6

8.9

11.9

14.8

16.5

18.1

21.7

24.6

28.3

31.9

35.5

42.8

51.1

58.5

65.8

9.3

15.3

19.2

26.1

30.7

34.6

41.5

49.7

57.4

64.3

72.9

85.9

14.9

29.2

40.2

47.5

55.9

65.8

84.5

108.2

21.9

34.7

53.0

73.1

89.6

94.9

104.2

45 - 75

60

5.9

9.7

12.5

14.0

15.6

17.3

20.3

23.9

27.6

30.9

34.5

44.1

51.2

58.4

65.7

10.4

16.1

22.8

27.2

32.6

36.4

42.8

51.2

58.2

65.1

72.0

85.9

9.4

21.0

34.7

49.4

63.9

76.4

83.9

100.3

116.8

9.8

25.6

42.0

62.5

73.1

87.7

104.1

115.2

32 - 50

40

6.2

9.7

12.4

14.0

15.6

17.3

20.4

23.9

27.9

30.9

34.5

44.1

51.5

58.3

65.7

10.0

15.7

21.2

28.6

32.6

35.9

42.7

50.2

58.0

65.1

72.6

85.8

11.3

21.2

35.8

49.4

62.9

73.1

84.0

104.2

120.7

11.9

26.3

43.9

62.1

76.8

91.0

107.8

115.2

Regulating Capacities

22 - 35

30

5.7

9.1

12.0

14.1

15.7

17.8

20.5

24.7

27.8

31.3

34.9

44.0

51.4

58.2

65.7

10.0

17.4

23.4

28.5

32.4

35.5

42.7

49.9

57.1

63.7

71.6

85.8

12.1

21.0

38.4

51.9

62.5

77.3

87.2

103.6

121.7

6.9

12.9

27.4

45.4

65.6

81.5

93.6

106.7

117.8

1105	, ,	2000	9	24	22	٠	٠

All capacities in SCMH 0.64 s.a.	Droop - 209

5 - 15

10

6.2

8.4

11.7

15.5

16.7

18.5

22.0

25.6

28.8

33.1

36.5

43.9

51.3

58.5

65.7

8.3

18.3

25.1

28.4

32.8

36.7

43.6

50.9

59.1

66.3

72.4

85.8

13.6

15.5

36.6

52.6

63.5

75.7

81.2

105.3

118.4

13.3

14.4

25.6

43.9

62.1

76.8

91.4

102.4

113.5

All capacities in SCMH 0.64 s.g.	Droop = 20%

All and existence COMMITO (A a m	D 000/
All capacities in SCMH 0.64 s.g.	Droop = 20%

	All capacities in SCMH 0.64 s.g.	Droop = 20%
0:0		

	All capacilles in scivin 0.04 s.g.	D1000p = 20%
5mm Orifice		

	All capacities in SCIVIH 0.64 s.g.	Droop = 20%
5mm Orifice		

	All capacities in SC/VH 0.64 s.g.	Droop = 20%	
5mm Orifica			

	. 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Action services to special and the services
3.5mm Orifice		
2.511IIII OTITICE		

.5mm Orifice				

12 - 25

20

5.5

7.7

10.9

13.7

16.5

18.4

20.7

25.3

28.3

32.1

36.0

43.9

51.3

58.5

65.7

9.9

16.8

23.0

28.9

32.4

36.5

43.6

50.3

57.6

64.9

71.9

85.8

12.8

21.2

38.4

53.4

62.1

72.4

78.4

92.1

111.9

8.4

13.7

25.6

43.9

62.8

82.3

95.0

105.3

113.5

3.5	mm	0	ri	fic

3.5mm Orifice	3.5	mm	Orifice	
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Setting Pressure (mbar)

Inlet Pressure (mbar)

500

750

1000

1250

1500

2000

2500

3000

3500

4000

5000

6000

7000

8000

250

500

750

1000

1250

1500

2000

2500

3000

3500

4000

5000

100

250

500

750

1000

1250

1500

2000

2500

50

100

250

500

750

1000

1250

1500

1700

8mm Orifice

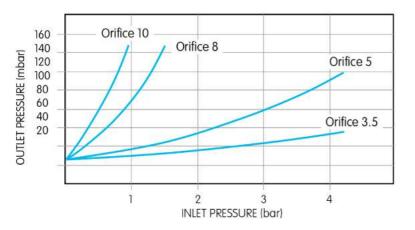
10mm Orifice

5mm Orifice

Spring Range (mbar)

J125: Service Regulator

Relief Valve



The data represented in the graph left shows the rise in outlet pressure above the set point against change in inlet pressure at a full fault situation.

Orifice Sizes	
Orifice Size (mm)	Maximum Inlet Pressure
3.5	8.6 bar (125 PSIG)
5	5.2 bar (75 PSIG)
8	2.4 bar (35 PSIG)
10	1.7 bar (25 PSIG)

For optimum regulator performance, the largest permissible orifice size should be selected from this table. For the optimum relief valve performance, the smallest orifice should be selected.

Material Specifications

A summary of the material specification for the J125 is given for reference. All material has been selected to provide maximum durability and reliability in service.

Components	Specification		
Regulator Body	S.G. Iron BS EN 1563:1997 Gr 400-15		
Valve Seat	Brass BS2874		
Regulator Valve Disc and "O" rings, USSA Diaphragm, Safety Diaphragm	Nitrile Synthetic Rubber (Buna)		
USSA Valve Disc and "O" rings	Nitrile Synthetic Rubber (DIN 3535 Part 3)		
Regulator Valve, USSA Valve	Aluminium Alloy BS4300/5		
Regulator Case and Cover, USSA Body and Cover	Aluminium Alloy BS1490		
Regulator and USSA Valve Spindle	Stainless Steel BS970		
Regulator Diaphragm	Reinforced Synthetic Rubber		
Relief Valve, Spring Holders, USSA Internals	Acetal Resin		
Lever Arm, Regulator Diaphragm Plate, Vent Valve Plates, Clamping Plate	Mild Steel, Zinc Plated and Passivated		
Springs	Carbon Steel, Zinc Plated and Passivated		
USSA Face Plates	Stainless Steel BS3100		

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 ISO 9001:2000.

Contacts

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