

FILTER REGULATOR MODEL SB37 1.15 BROCHURE



Filter Regulator Model SB37 1.15

FEATURES

- Filter/Regulator combination unit for process control is designed as a high-performance product for instrument air use in corrosive atmosphere.
- Applications include marine environments, oil and gas production, chemicals and food processing, medical analysis etc.
- CE, ATEX, EAC Ex (CUTR 12), EAC (CUTR 10) approved.
- SIL3 capable as per IEC 61508.
- All External parts are NACE MR 0175* approved.

(*National Association of Corrosion Engineers MR-0175 defines requirements for sulphide stress cracking resistant materials used in oilwells and corrosive environments).

PARAMETERS	SPECIFICATIONS
Fluid	Compressed Air
Pipe size	1", 1½"
Pipe Thread	NPT - Standard BSPT, BSP - Optional
Max. Inlet Pressure	30 bar (435 psi)
Max. Operating Temp.(Ambient)	+80° C
Filter Element Size	25 micron - Standard 5,40 micron - Optional
Filter Element Material	SS 316 - Std.
Material of Construction	Stainless Steel as per AISI 316L
Body, Bonnet, Bowl	SS 316L with NACE compliance (MR 0175)
Internal parts	SS 316L
External parts	SS 316L with NACE compliance (MR 0175)
Diaphragm Assembly	Synthetic Rubber without PTFE - Standard
Elastomer	Low Temperature Nitrile -60°C to +80°C (Std) EPDM -35°C to +120°C Fluorocarbon (Viton-FKM) -20°C to +180°C
Bowl Capacity	320 ml.
Regulated secondary pressure ranges	1.0 to 10.0 bar (15.0 - 150 psi) - Standard 0.21 to 2.1bar (3.0 - 30 psi) - Optional 0.4 to 4.0 bar (6.0 - 60 psi) - Optional 0.87 to 8.75 bar (12.5 - 125 psi) - Optional 1.70 to 17.5 bar (25 - 250 psi) - Optional
Standard Nominal Flow Rate at 10 bar (150psi) inlet pressure 6 bar (87 psi) set pr. and a drop of 1 bar(14.5 psi) from set	1" - 500 scfm (236 dm3/sec) 1½" - 525 scfm (248 dm3/sec)
CV Value	1 " - (9.40) 1½ " - (9.90)
Drain	Manual - Standard
Regulator Type	Relieving - Standard Non-Relieving - Optional
Pressure Adjustment	Hex Headed Adjusting screw - Standard. 'T' handle - Optional.
Gauge Port (2 nos.)	1/4" BSPT (Fe) - Standard 1/4" NPT (Fe) - Optional
Gauge size (dial size)	50 mm (Nominal)
Mounting	P.M. NUT - Standard Wall Mounting Bracket - Optional
Weight	5.4 Kgs.

Pressure Gauge (scale) : Kg/cm² (PSI) - Standard (For Domestic Market)
Bar (PSI) - Standard (Export)



Note :

1) Pressure gauge will not have CE, EAC, SIL3 and NACE MR 0175 approval.

2) Pressure gauge will have ATEX approval.

3) PM nut, mounting bracket, grub screw will not have NACE MR 0175 approval.

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SB37 (G 1, G 1½)

Size	Flow (scfm)	Element (um)	Drain	Bowl	Range (psi)	Operation	Model
G1	500 scfm (236 dm3/sec)	40	Manual	Metal	12 - 125 psi	Relieving	SB37-800-M8LA-NHA
G1½	525 scfm (248 dm3/sec)	40	Manual	Metal	12 - 125 psi	Relieving	SB37-B00-M8LA-NHA

+Values indicated are with 40 micron elements, with finer elements these values will be lower.

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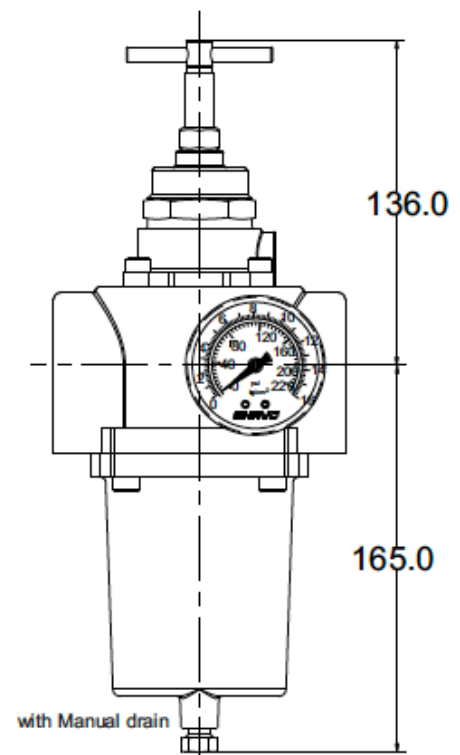
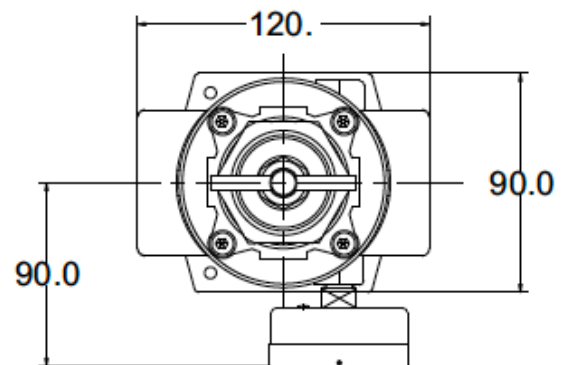
SB37 (G 1, G 1½)

Option Selector

Sample Model Number → **S B 3 7 - 8 0 0 - M 7 L A - N T - X X X - X X X**

Position → **0 1 2 3 - 4 5 6 - 7 8 9 10 - 11 12 - 13 14 15 - 16 17 18**

0		S = Shavo																													
1	Product	B = Filter Cum Regulator Combination Unit																													
2	3	Series	37 = All SS 316L unit (casted)																												
4	Port Size	8 = 1" B = 1 1/2"																													
5	6	Options	<table><tr><td></td><td colspan="2">Low Temp. Nitrile ELASTOMER</td><td colspan="2">EPDM ELASTOMER</td><td colspan="2">VITON ELASTOMER</td></tr><tr><td></td><td>REL</td><td>NON REL</td><td>REL</td><td>NON REL</td><td>REL</td><td>NON REL</td></tr><tr><td>No Gauge</td><td>80</td><td>90</td><td>[20]</td><td>[30]</td><td>[40]</td><td>[50]</td></tr><tr><td>With Gauge(SS316) (with ATEX approved)</td><td>81</td><td>91</td><td>[21]</td><td>[31]</td><td>[41]</td><td>[51]</td></tr></table>		Low Temp. Nitrile ELASTOMER		EPDM ELASTOMER		VITON ELASTOMER			REL	NON REL	REL	NON REL	REL	NON REL	No Gauge	80	90	[20]	[30]	[40]	[50]	With Gauge(SS316) (with ATEX approved)	81	91	[21]	[31]	[41]	[51]
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7	Drain	M = Manual																													
8	Filter Element	7 = 05 micron SS316 8 = 25 micron SS316 9 = 40 micron SS316																													
9	Sec. Pr. Range	C = 0.21 to 2.10 bar (3.0 - 30 psi) F = 0.4 to 4.0 bar (6.0 - 60 psi) L = 0.87 to 8.75 bar (12.5 - 125 psi) M = 1.0 to 10.0 bar (15.0 - 150 psi) *[S] = 1.70 to 17.5 bar (25 - 250 psi)																													
10	Port Thread	<table><tr><td></td><td>Main Port</td><td>Gauge Port</td></tr><tr><td>A</td><td>NPT</td><td>BSPT</td></tr><tr><td>B</td><td>BSPT</td><td>BSPT</td></tr><tr><td>G</td><td>BSP</td><td>BSPT</td></tr><tr><td>N</td><td>NPT</td><td>NPT</td></tr></table>		Main Port	Gauge Port	A	NPT	BSPT	B	BSPT	BSPT	G	BSP	BSPT	N	NPT	NPT														
	Main Port	Gauge Port																													
A	NPT	BSPT																													
B	BSPT	BSPT																													
G	BSP	BSPT																													
N	NPT	NPT																													
11	Mounting & Accessories	N = No MTG. bracket B = Wall bracket Fitted(S.S.316)																													
12	Pressure Adjustment	H = Hex Headed Screw (SS 316L) T = 'T' Handle (SS 316L)																													



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SB37 (G 1, G 1½)

A	0	0	ATEX
A	0	1	UKEX
A	0	2	UKCA
A	0	3	ATEX, UKEX, EAC Ex, UKCA
A	0	4	ATEX, UKEX, EAC Ex
A	0	5	ATEX, UKEX, UKCA
A	0	6	ATEX, UKEX, EAC Ex
B	0	0	ATEX, CE
B	0	1	ATEX, CE, UKEX, EAC Ex, UKCA
B	0	2	ATEX, CE, UKEX, EAC Ex
B	0	3	ATEX, CE, UKEX, UKCA
B	0	4	ATEX, CE, UKEX, EAC Ex, UKCA
B	0	5	ATEX, CE, EAC Ex
C	0	0	CE
C	0	1	CE, UKEX, EAC Ex, UKCA
C	0	2	CE, UKEX, EAC Ex
C	0	3	CE, UKEX, UKCA
C	0	4	CE, EAC Ex, UKCA
C	0	5	CE, EAC Ex
D	0	0	ATEX, EAC
D	0	1	ATEX, EAC, UKEX, EAC Ex, UKCA
D	0	2	ATEX, EAC, UKEX, EAC Ex
D	0	3	ATEX, EAC, UKEX, UKCA
D	0	4	ATEX, EAC, EAC Ex, UKCA
E	0	0	EAC
E	0	1	EAC, UKEX, EAC Ex, UKCA
E	0	2	EAC, UKEX, EAC Ex
E	0	3	EAC, UKEX, UKCA
E	0	4	EAC, EAC Ex, UKCA
F	0	0	ATEX, SIL3
F	0	1	ATEX, SIL3, UKEX, EAC Ex, UKCA
F	0	2	ATEX, SIL3, UKEX, EAC Ex
F	0	3	ATEX, SIL3, UKEX, UKCA
F	0	4	ATEX, SIL3, EAC Ex, UKCA
F	0	5	ATEX, SIL3, EAC Ex
G	0	0	CE, EAC
G	0	1	CE, EAC, UKEX, EAC Ex, UKCA
G	0	2	CE, EAC, UKEX, EAC Ex
G	X	3	CE, EAC, UKEX, UKCA
G	0	4	CE, EAC, EAC Ex, UKCA
H	0	0	CE, SIL3
H	0	1	CE, SIL3, UKEX, EAC Ex, UKCA
H	0	2	CE, SIL3, UKEX, EAC Ex
H	0	3	CE, SIL3, UKEX, UKCA
H	0	4	CE, SIL3, EAC Ex, UKCA
H	0	5	CE, SIL3, EAC Ex
J	0	0	EAC, SIL3
J	0	1	EAC, SIL3, UKEX, EAC Ex
J	0	2	EAC, SIL3, UKEX, EAC Ex
J	0	3	EAC, SIL3, UKEX, UKCA
J	0	4	EAC, SIL3, EAC Ex, UKCA
K	0	0	CE, EAC, SIL3

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SB37 (G 1, G 1½)

K	0	1	CE, EAC, SIL3, UKEX, EAC Ex, UKCA
K	0	2	CE, EAC, SIL3, UKEX, UKCA
K	0	3	CE, EAC, SIL3, UKEX, EAC Ex
K	0	4	CE, EAC, SIL3, EAC Ex, UKCA
L	0	0	ATEX, EAC, SIL3
L	0	1	ATEX, EAC, SIL3, UKEX, EAC Ex, UKCA
L	0	2	ATEX, EAC, SIL3, UKEX, EAC Ex
L	0	3	ATEX, EAC, SIL3, UKEX, UKCA
L	0	4	ATEX, EAC, SIL3, EAC Ex, UKCA
M	0	0	ATEX, CE, SIL3
M	0	1	ATEX, CE, SIL3, UKEX, EAC Ex, UKCA
M	0	2	ATEX, CE, SIL3, UKEX, EAC Ex
M	0	3	ATEX, CE, SIL3, UKEX, UKCA
M	0	4	ATEX, CE, SIL3, EAC Ex, UKCA
N	0	0	ATEX, CE, EAC
N	0	1	ATEX, CE, EAC, UKEX, EAC Ex, UKCA
N	0	2	ATEX, CE, EAC, UKEX, EAC Ex
N	0	3	ATEX, CE, EAC, UKEX, UKCA
N	0	4	ATEX, CE, EAC, EAC Ex, UKCA
[O]	[0]	[0]	Other customer special requirement if Any
P	0	0	ATEX, CE, EAC, SIL3
P	0	1	ATEX, CE, EAC, SIL3, UKEX, EAC Ex, UKCA
P	0	2	ATEX, CE, EAC, SIL3, UKEX, EAC Ex
P	0	3	ATEX, CE, EAC, SIL3, UKEX, UKCA
P	0	4	ATEX, CE, EAC, SIL3, EAC Ex, UKCA
Q	0	0	ATEX, EAC Ex
R	0	0	EAC Ex
R	0	1	EAC Ex, UKEX, UKCA
R	0	2	EAC Ex, UKCA
S	0	0	SIL3
S	0	1	SIL3, UKEX, EAC Ex, UKCA
S	0	2	SIL3, UKEX, EAC Ex
S	0	3	SIL3, UKEX, UKCA
S	0	4	SIL3, EAC Ex, UKCA
V	0	0	ATEX, CE, SIL3, EAC Ex
V	0	1	ATEX, CE, SIL3, EAC Ex, UKEX, UKCA
V	0	2	ATEX, CE, SIL3, EAC Ex, UKEX
V	0	3	ATEX, CE, SIL3, EAC Ex, UKCA
X	X	X	STANDARD UNITS WITHOUT ANY CERTIFICATE APPROVAL
Y	0	0	ATEX, SIL3, EAC Ex
Y	0	1	ATEX, SIL3, EAC Ex, UKEX, UKCA
Y	0	2	ATEX, SIL3, EAC Ex, UKEX
Y	0	3	ATEX, SIL3, EAC Ex, UKCA
Z	0	1	CE, SIL3, EAC Ex, UKEX, UKCA
Z	0	2	CE, SIL3, EAC Ex, UKEX
Z	0	3	CE, SIL3, EAC Ex, UKCA

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SB37 (G 1, G 1½)

X	X	X	Standard Unit Without Any Compliance
A	0	1	RoHS 3 Compliance
A	0	2	REACH Compliance
A	0	3	Copper Free (only Applicable Aluminium version)
A	0	4	RoHS 3, REACH Compliance
A	0	5	RoHS 3, REACH, Copper Free (only Applicable Aluminium version)
A	0	6	RoHS 3, Copper Free (only Applicable Aluminium version)
A	0	7	REACH, Copper Free (only Applicable Aluminium version)

Note : Option shown in the [] bracket are special, Please contact Sales HQ/Manufacturing.
*[S] option available with hex headed adjusting screw.



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