

FILTER REGULATOR MODEL SB37 1-2 BROCHURE



Filter Regulator Model SB37 1-2

FEATURES

- Filter/Regulator combination model SB37 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	1/2", 3/4"
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. Sintered Bronze - Optional
Material of Construction Body, Bonnet, Bowl Internal parts	Stainless Steel as per AISI 316L SS 316L with NACE compliance (MR 0175) SS 316L SS 316L with NACE compliance (MR 0175)
External parts	
Diaphragm Assembly	Synthetic Rubber without PTFE
Elastomer	Low Temperature Nitrile -60°C to +80°C EPDM -35°C to +120°C Fluorocarbon (Viton-FKM) -20°C to +180°C
Bowl Capacity	100 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	1/2" - 277 scfm (132 dm3/sec) 3/4" - 355 scfm (169 dm3/sec)
CV Value	1/2" - (5.22) 3/4" - (6.69)
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 OD (Nominal) - Standard
Mounting	P.M. NUT - Standard Wall Mounting Bracket - Optional
Weight	2.0 Kgs.



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 1/2, 3/4)

Size	Flow (scfm)	Element (um)	Drain	Bowl	Range (psi)	Operation	Model
G1/2"	277 scfm (132 dm3/sec)	25 SS	Manual	Metal	12 - 125 psi	Relieving	SB37-400- M7LA-NHA
G3/4"	355 scfm (169 dm3/sec)	25 SS	Manual	Metal	12 - 125 psi	Relieving	SB37-600- M7LA-NHA

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

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SB37 (G 1/2, 3/4)

Option Selector

Sample Model Number → **S B 3 7 - 4 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** = SS 316L unit (cast)

4 Port Size
4 = 1/2"
6 = 3/4"

	Low Temp. NBR 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) (ATEX approved)	81	91	[21]	[31]	[41]	[51]

7 Drain **M** = Manual

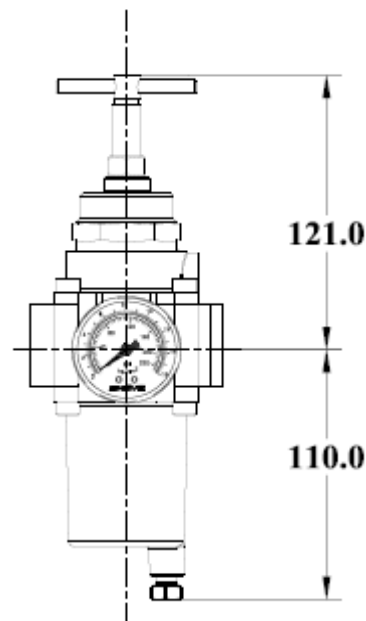
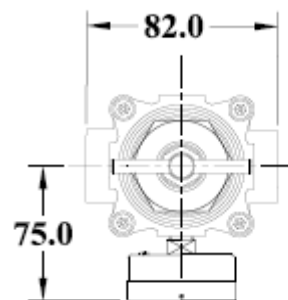
	Sintered Bronze	S.S. 316
5 micron	4	7
25 micron	5	8
40 micron	6	9

9 Sec.Pr.Range
 C = 0.21 to 2.10 bar (3.0 - 30 psi)
 F = 0.40 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 (25.0 - 250 psi)

	Main Port	Gauge Port
A	NPT	BSPT
B	BSPT	BSPT
G	BSP	BSPT
N	NPT	NPT

11 Mounting	N	No Mounting Bracket	 STANDARD	 2" PIPE
	B	Wall Mounting Bracket Fitted (SS316)		
	[P]	2" Pipe Mounting Bracket Fitted(SS316)		

12 Pr.Adjustment
H = Hex Headed Screw (SS316L)
T = T Handle (SS316L)



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13 14 15 Test / Approval

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, UKCA, EAC Ex
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	0	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, UKCA
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 1/2, 3/4)

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, EACEx
y	0	1	ATEX, SIL3, EACEx, UKEX, UKCA
Y	0	2	ATEX, SIL3, EAC Ex, UKEX
Y	0	3	ATEX, SIL3, EACEx, 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 1/2, 3/4)

16 17 18 Compliance

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	RoHS3, REACH Compliance
A	0	5	RoHS3, REACH, Copper Free (Only Applicable for Aluminium Version)
A	0	6	RoHS3, Copper Free (Only Applicable for Aluminium Version)
A	0	7	REACH, Copper Free (Only Applicable for 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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