

AIR FILTER / REGULATOR

SB37 (G1/4, G 3/8)

Features

- Shavo's 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[CU TR10(equivalent to GOST R&K)] 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	1/4", 3/8"
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	Stainless Steel as per AISI 316L
Body, Bonnet, Bowl	SS 316L with NACE compliance (MR 0175)
Internal parts	SS 316L/ SS 304
External parts	SS 316L with NACE compliance (MR 0175)
Diaphragm Assembly	Synthetic Rubber without PTFE
Elastomers	Low Temp.Nitrile (LNBR) -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 0.4 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 0.21 to 2.10 bar (3 - 30 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	1/4" - 74 scfm (35 dm3/sec) 3/8" - 156 scfm (74 dm3/sec)
CV Value	1/4" - (1.40) 3/8" - (2.94)
Drain	Manual - Standard
Type	Relieving - Standard Non-Relieving - Optional
Pressure Adjustment	Hex Head 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	1.80 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.

Size	Flow (scfm)	Element (um)	Drain	Bowl	Range (psi)	Operation	Model
G1/4"	74 scfm (35 dm³/sec)	25 SS	Manual	Metal	12 - 125 psi	Relieving	SB37-200-M7LA-NHA
G3/8"	156 scfm (74 dm³/sec)	25 SS	Manual	Metal	12 - 125 psi	Relieving	SB37-300-M7LA-NHA

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



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Option Selector

Sample Model Number → **S B 3 7 - 2 0 0 - M 7 L A - N T A**

Position → **0 1 2 3 - 4 5 6 - 7 8 9 10 - 11 12 13**

0 S = Shavo

1 Product B = Filter Cum Regulator Combination Unit

2 3 Series 37 = All SS 316L unit (casted)

4 Port Size
2 = 1/4"
3 = 3/8"

	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 approval	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 4.00 bar (6.0 - 60 psi)
L = 0.87 to 8.75 bar (12.5 - 125 psi)
M = 1.00 to 10.0 bar (15.0 - 150 psi)
*[S] = 1.70 to 17.5 bar (25.0 - 250 psi)

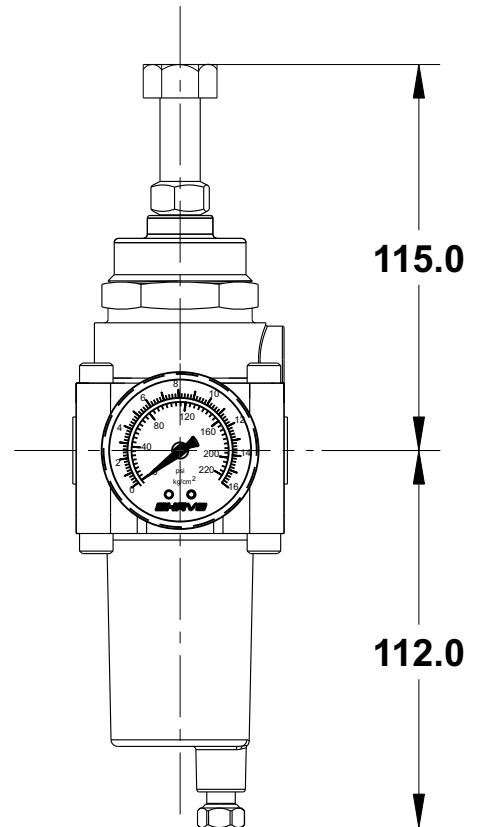
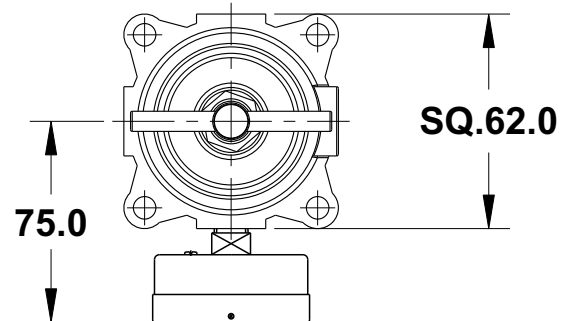
	Main Port	Gauge Port
A	NPT	BSPT
B	BSPT	BSPT
G	BSP	BSPT
N	NPT	NPT

11 Mounting
N No Mounting Bracket
B Wall Mounting Bracket Fitted (SS316)
P 2" Pipe Mounting Bracket Fitted (SS316)
S Customer spl. bracket fitted (SS316)



12 Pr.Adjustment
H = Hex Headed Screw (SS 316L)
T = T handle (SS316L)

13 Test/Approval



Note : Options shown in [] bracket are special, please contact manufacturing.
*[S] option available with hex headed adjustment only.

Blank = Standard unit (without ATEX approved)
A = ATEX approved.
C = CE
E = EAC (CUTR-10)
S = SIL3
P = ATEX, CE, EAC, SIL3
B = ATEX, CE
D = ATEX, EAC
F = ATEX, SIL3
G = CE, EAC
H = CE, SIL3
J = EAC, SIL3
K = CE, EAC, SIL3
L = ATEX, EAC, SIL3
M = ATEX, CE, SIL3
N = ATEX, CE, EAC
O = Other customer special reqmt.if any.