

FILTER REGULATOR MODEL SB27 BROCHURE



Filter Regulator Model SB27

SB27 (G 1/4, G 3/8)

FEATURES

- Filter/Regulator combination model SB27 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, EAC [CUTR10(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 with PTFE - Standard
Elastomer	Low Temp. Nitrile (LNBR) -60°C to +80°C (Std) EPDM -35°C to +120°C Fluorocarbon (Viton-FKM) -20°C to +180°C
Bowl Capacity	160 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 0.86 to 8.6 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" - 173 scfm (82 dm3/sec)
CV Value	1/4" - (1.39) 3/8" - (3.26)
Drain	Manual - Standard
Regulator Type	Relieving - Standard Non-Relieving - Optional
Pressure Adjustment	Hex Head adjusting screw - Standard 'T' Handle - Optional
Gauge Port (2 nos.)	1/4" NPT (Fe) - Standard 1/4" BSPT (Fe) - Optional
Gauge size (dial size)	50 mm (Nominal)
Mounting	P.M. NUT - Standard Wall Mounting Bracket - Optional
Weight	2.0 Kgs.



Note :

1) PM nut, mounting bracket, Grub screw will not have NACE MR 0175 approval.

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

3) Automatic drain available with Nitrile elastomer only.

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

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Size	Flow (scfm)	Element (um)	Drain	Bowl	Range (psi)	Operation	Model
G1/4"	74 scfm (35 dm3/sec)	25 SS	Manual	Metal	15 - 150 psi	Relieving	SB27-201-M8MA-NHA
G3/8"	173 scfm (82 dm3/sec)	25 SS	Manual	Metal	15 - 150 psi	Relieving	SB27-301-M8MA-NHA

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

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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SB27 (G $\frac{1}{4}$, $\frac{3}{8}$)

Option Selector

Sample Model Number → **S B 2 7 - 2 0 0 - M G L A - N H - 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 Regulator Combination Unit

2 3 Series

27 = Midi Series - All SS 316 Unit

4 Port Size

2 = $\frac{1}{4}$ "
3 = $\frac{3}{8}$ "

5 6 Options

	NITRILE ELASTOMER		EPDM ELASTOMER		VITON ELASTOMER		Low.Temp Nitrile elasto	
	REL	NON REL	REL	NON REL	REL	NON REL	REL	NON REL
No Gauge	00	10	01	11	02	12	[04]	[14]
With Gauge (SS)	21	31	22	32	23	33	[25]	[35]

7 Drain

M = Manual
A = Automatic (available with Nitrile elastomer only)

8 Filter Element

	Plastic	Sintered Bronze	S.S. 316
5 micron	1	4	7
25 micron	2	5	8
40 micron	3	6	9

9 Sec. Pr. Range

C	3-30 psi (0.21 - 2.10 bar)
F	6-60 psi (0.40 - 4.0 bar)
L	12.5-125 psi (0.86 - 8.6 bar)
M	15.0-150 psi (1.0 - 10.0 bar)
*[S]	25-250 psi (1.70 - 17.5 bar)

10 Port Thread

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

11 Mounting & Accessories

N = No Mounting Bracket
B = Wall Mounting Bracket Fitted (SS)
P = 2" Pipe Mounting Bracket Fitted (SS)



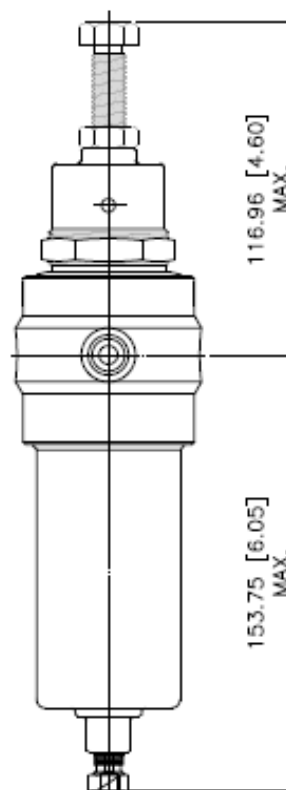
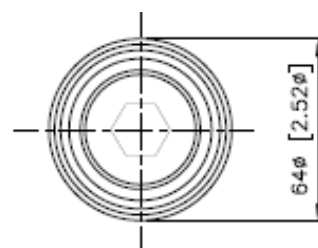
STANDARD



2" PIPE

12 Pressure Adjustment

H = Hex Headed Screw (SS 316L)
[T] = 'T' Handle (SS 316L)



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13 14 15 Test / Approval

C	0	0	CE
C	0	1	UKCA
C	0	2	CE, UKCA
E	0	0	EAC
E	0	1	EAC, UKCA
S	0	0	SIL3
S	0	1	SIL3, UKCA
G	0	0	CE, EAC
G	0	1	CE, EAC, UKCA
H	0	0	CE, SIL3
H	0	1	CE, SIL3, UKCA
K	0	0	CE, EAC, SIL3
K	0	1	CE, EAC, SIL3, UKCA
X	X	X	Standard Units Without Any Certificatios / Approval
[O]	[0]	[0]	Other Customer Special Requirement if Any

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.

Panel mounting nut is standard for all units.

* [] option available with Hex headed pressure adjustment only.



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