

# FILTER REGULATOR MODEL SB67 BROCHURE



# Filter Regulator Model SB67

SB67 (G 1/2, G 3/4)

## FEATURES

- Filter/Regulator combination model SB67 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.
- SIL 3 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 racking resistant materials used in oilwells and corrosive environments).

| PARAMETERS                                                                                                                          | SPECIFICATIONS                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fluid                                                                                                                               | Compressed Air                                                                                                                                                                                                                      |
| Pipe size                                                                                                                           | 1/2", 3/4"                                                                                                                                                                                                                          |
| Pipe Thread                                                                                                                         | NPT - Standard<br>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/Plastic - Optional                                                                                                                                                                                    |
| Material of Construction<br>Body, Bonnet, Bowl                                                                                      | Stainless Steel as per AISI 316L<br>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<br>EPDM -35°C to +120°C<br>Fluorocarbon (Viton-FKM) -20°C to +180°                                                                                                                           |
| Bowl Capacity                                                                                                                       | 160 ml.                                                                                                                                                                                                                             |
| Regulated secondary pressure<br>ranges                                                                                              | 1.0 to 10.0 bar (15.0 - 150 psi) - Standard<br>0.4 to 4.0 bar ( 6.0 - 60 psi ) - Optional<br>0.21 to 2.10 bar (3.0 - 30 psi) - Optional<br>0.86 to 8.6 bar (12.5 - 125 psi) - Optional<br>1.70 to 17.5 bar (25 -250 psi) - Optional |
| Standard Nominal Flow Rate at<br>10 bar (150psi) inlet pressure 6<br>bar (87 psi) set pr. and a drop of<br>1 bar(14.5 psi) from set | 1/2" - 192 scfm (91 dm3/sec)<br>3/4" - 340 scfm (162 dm3/sec)                                                                                                                                                                       |
| CV Value                                                                                                                            | 1/2" - (3.62)<br>3/4" - (6.42)                                                                                                                                                                                                      |
| Drain                                                                                                                               | Manual - Standard                                                                                                                                                                                                                   |
| Regulator Type                                                                                                                      | Relieving - Standard Non-Relieving - Optional                                                                                                                                                                                       |
| Pressure Adjustment                                                                                                                 | Hex Headed Adjusting screw - Standard<br>'T' handle - Optional                                                                                                                                                                      |
| Gauge Port (2 nos.)                                                                                                                 | 1/4"BSPT (Fe) - Standard<br>1/4" NPT (Fe) - Optional                                                                                                                                                                                |
| Mounting                                                                                                                            | P.M. NUT - Standard<br>Wall Mounting Bracket - Optional                                                                                                                                                                             |
| Weight                                                                                                                              | 3.0 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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## SB67 (G 1/2, G 3/4)

| Size  | Flow (scfm)               | Element (um) | Drain  | Bowl  | Range (psi)     | Operation | Model             |
|-------|---------------------------|--------------|--------|-------|-----------------|-----------|-------------------|
| G1/2" | 192 scfm<br>(91 dm3/sec)  | 25 SS        | Manual | Metal | 15 - 150<br>psi | Relieving | SB67-401-M8MA-NAH |
| G3/4" | 340 scfm<br>(162 dm3/sec) | 25 SS        | Manual | Metal | 12 - 125<br>psi | Relieving | SB67-601-M8MA-NAH |

# Filter Regulator Model SB67

## SB67 (G<sup>1</sup><sub>2</sub>, G<sup>3</sup><sub>4</sub>)

### Option Selector

Sample Model Number → **S B 6 7 - 4 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

67 = SS 316L (MOC)

**4** Port Size

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

**5 6** Options

|                 | NITRILE ELASTOMER |         | EPDM ELASTOMER |         | VITON ELASTOMER |         | Low Temp. Nitrile elastomer |         |
|-----------------|-------------------|---------|----------------|---------|-----------------|---------|-----------------------------|---------|
|                 | 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 to 2.10 bar)     |
| F | 6 - 60 psi (0.4 to 4 bar)       |
| L | 12 - 125 psi (0.87 to 8.75 bar) |
| M | 15 - 150 psi (1.0 to 10.0 bar)  |
| S | 25 - 250 psi (1.70 to 17.5 bar) |

**10** Port Thread

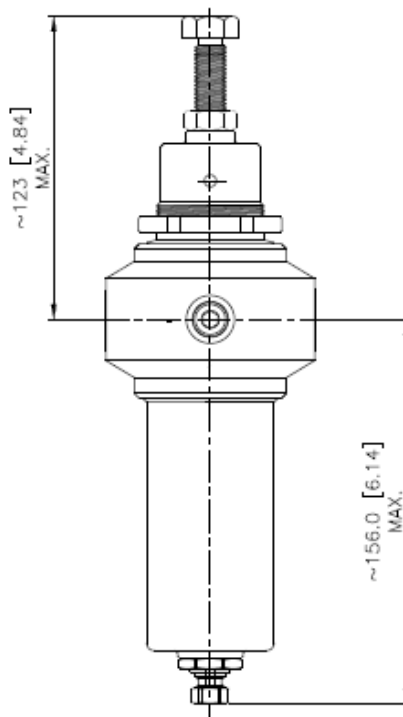
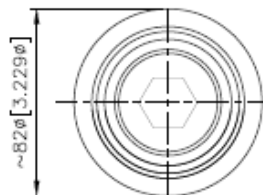
|   | Main Port | Gauge Port |
|---|-----------|------------|
| A | NPT       | BSPT       |
| B | BSPT      | BSPT       |
| G | BSP       | BSPT       |
| N | NPT       | NPT        |

**11** Mounting

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

**12** Pressure Adjustment

H = Hex Headed Screw (SS316L)  
[T] = 'T' Handle (SS 316L)



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SB67 (G<sup>1</sup><sub>2</sub>, G<sup>3</sup><sub>4</sub>)

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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