

## AIR FILTER / REGULATOR Stainless Steel

FIRST NAME IN PNEUMATICS

### SB77 (G 1/8, G 1/4)

#### FEATURES

- Shavo's' Filter-Regulator Model SB77 is designed as a high-performance product for instrument air use in corrosive atmospheres.
- Applications include marine environments, oil and gas production, chemicals and food processing, medical analysis etc.
- Metallic parts meet NACE standard MR-01 75\*

(\*National Association of Corrosion Engineers MR-01 75 defines requirements for sulphide stress cracking resistant materials used in oilwells and other corrosive environments.)



| PARAMETERS  | SPECIFICATIONS   |
|---|--|
| Fluid   | Compressed Air   |
| Pipe Sizes  | 1/8", 1/4"   |
| Port Thread   | NPT - Standard<br>BSPT, BSP Optional   |
| Max. Inlet Pressure   | 21 kg/Sq.cm  |
| Operating Temp. Range   | -20 to +80°C (for Nitrile Elastomer)<br>-20 to +180°C (for Viton Elastomer)<br>-50 to +120°C (for EPDM Elastomer)  |
| Particle Removal  | 25 Micron - Std. (5 Micron - Optional)   |
| Material of Construction :<br>Body, Bonnet, Bowl, Trim , Drain Valve, Pr. Adj.<br>Screw, Nut, Springs, Louvre, Baffle | STAINLESS STEEL PER<br>AISI 316 AND<br>NACE MR 0175  |
| Diaphragm Assembly  | Synthetic Rubber with PTFE Protection  |
| Elastomers  | NITRILE - Standard<br>EPDM, VITON - Optional   |
| Standard Nominal Flow Rate (At supply pr. of<br>10 bar and 1 bar drop in sec. Pr. of 6 bar)                           | 3.8 dm <sup>3</sup> / sec (8.0 scfm)   |
| Bowl Capacity   | 30 ml  |
| Drain   | Manual - Std Auto - Optional   |
| Type  | Non Relieving - Standard Relieving - Optional  |
| Pressure Adjustment   | Adjusting Screw (M6)<br>With Lock-Nut  |
| Regulated Sec. Pr. Ranges   | 0.70 to 7.0 kg/sq.cm - Standard<br>0.07 to 0.70 kg/sq.cm - Optional<br>0.21 to 2.10 kg/sq.cm - Optional<br>0.35 to 3.50 kg/sq.cm - Optional<br>1.0 to 10.0 kg/sq.cm - Optional |
| Gauge Port (2 nos.)   | 1/8" BSPT (Fe) - Std.<br>1/8" NPT (Fe) - Optional  |
| Mounting  | Panel Mount Threading - Available<br>P.M. NUT - Optional<br>Wall Mounting Bracket - Optional   |
| Weight  | 0.5 Kg   |

Note:

- 1) Pressure gauge will be SS 2"dia 1/8" BC but will not be to NACE specification
- 2) Auto Drain - Not to NACE specification. Available only with Nitrile Elastomers.
- 3) For optional versions please contact Sales H.Q.

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### Option Selector

Sample Model Number → **S B 7 7 - 2 2 1 - M 2 K A - N**

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

- 0** S = Shavo
- 1** Product Filter Regulator Combination Unit
- 2 3** Series Miniature - With S.S. 316 Body and Trim
- 4** Port Size
  - 1 = 1/8"
  - 2 = 1/4"

| Material of Construction |              | WITHOUT GAUGE      |      |       | WITH GAUGE |      |       |
|--------------------------|--------------|--------------------|------|-------|------------|------|-------|
|                          |              | ELASTOMER MATERIAL |      |       |            |      |       |
| BONNET                   | BOWL         | NITRILE            | EPDM | VITON | NITRILE    | EPDM | VITON |
| Plastic                  | Zinc Diecast | 00                 | 01   | 02    | 21         | 22   | 23    |
| Plastic                  | S.S          | 51                 | 52   | 53    | 61         | 62   | 63    |
| S.S.316                  | S.S          | 71                 | 72   | 73    | 81         | 82   | 83    |

- 7** Drain
  - M = Manual
  - A = Automatic works on change in flow

- 8** Filter Element
  - 1 = 05 Micron Porous Plastic
  - 2 = 25 Micron Porous Plastic
  - 4 = 100 Micron Porous Plastic
  - 5 = 5 Micron S.S.
  - 6 = 5 Micron Sint. Br.
  - 7 = 25 Micron Sint. Br.
  - 9 = 100 Micron Sint. Br.

- 9** Sec. Pr. Range
  - A = 0.07 to 0.70 kg/cm<sup>2</sup>
  - C = 0.2 to 2.10 kg/cm<sup>2</sup>
  - E = 0.35 to 3.50 kg/cm<sup>2</sup>
  - K = 0.70 to 7.00 kg/cm<sup>2</sup>
  - M = 1.00 to 10.0 kg/cm<sup>2</sup>

|          | Main Port | Gauge Port |
|----------|-----------|------------|
| <b>A</b> | NPT       | BSPT       |
| <b>B</b> | BSPT      | BSPT       |
| <b>C</b> | BSP       | BSPT       |
| <b>N</b> | NPT       | NPT        |

- 11** Mounting
  - N = No Wall Mounting Bracket
  - B = Wall Mounting Bracket Fitted

