

# AIR FILTER - REGULATOR - VAYU<sup>TM</sup> LARGE

SB70 (G<sup>3</sup>/<sub>4</sub>, G1, G1<sup>1</sup>/<sub>4</sub>, G1<sup>1</sup>/<sub>2</sub>)

**SHAVO**  
FIRST NAME IN PNEUMATICS

## FEATURES

- I Shavo's VAYU Series Large Flow Range combination unit combines filter and regulator into one compact unit
- I It is a space saving design for general application in compressed air systems where effective contamination filtration, liquid water removal and controlled pressure is required.



PARAMETERS	SPECIFICATIONS	
Pipe Threads	G <sup>3</sup> / <sub>4</sub> , 1, 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>1</sup> / <sub>2</sub> Parallel (F) Standard NPT/BSPT Optional	
Body Material	Al. Alloy die-cast	
Bowl Material	Al. Alloy Metal with sight glass	- Standard
Filter Element Size	40 micron (std) : 5, 25 micron	- Optional
Filter Element Material	Plastic (Polypropylene)	- Standard
	Sintered bronze	- Optional
Maximum Inlet Pressure	With Metal bowl (manual drain)	- 250 psig (17.5 bar)
	With Metal bowl (automatic and semi-automatic drain)	- 150 psig (10.5 bar)
Maximum Operating Temperature (ambient)	80° (175°F)	
Standard Nominal Flow Rate at 10 bar (150 PSI)	3/4" : 515 scfm (243 dm <sup>3</sup> /sec) CV(9.70)	
Inlet pressure 6 bar (87 PSI) set pressure and a drop of 1 bar (14.5 PSI) from set	1 to 1 <sup>1</sup> / <sub>2</sub> : 600 scfm (283 dm <sup>3</sup> /sec) CV(11.30)	
Drain	Manual	- Standard
	Automatic	- Optional
	Semi-Automatic	- Optional
Pr. Adjustment	Non-rising plastic knob	- Standard
	Square headed	- Optional
Regulated secondary outlet pressure range and recommended Pressure gauge range available in psi (bar)	Spring Range	Gauge Range
	3-30 psi (0.21 - 2.1 bar)	0-35 psi (0 - 2.5 bar)
	5-50 psi (0.35 - 3.50 bar)	0-60 psi (0 - 4 bar)
	12-125 psi (0.87 - 8.75 bar)	0-150 psi (0 - 10 bar)
	15-150 psi (1.0 - 10.00 bar)	0-220 psi (0 - 16 bar)
	25-250 psi (1.75 - 17.50 bar)	0-300 psi (0 - 20 bar)
Gauge Size	50 mm (dial size)	
Gauge Port	Rc 1/8	
Gauge connection	Back	
Mounting Bracket	Optional	
Panel Mounting	Available - Optional	

Pressure Gauge (scale) : Kg/cm<sup>2</sup> (PSI) - Standard (For Domestic Market)  
Bar (PSI) - Standard (Export)

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

Note : Pressure gauge will not have CE,EAC & SIL3 approval.  
Automatic drain and semi-automatic drain available with Nitrile elastomer only.

## SB70 (G<sup>3</sup>/<sub>4</sub>, G1, G1<sup>1</sup>/<sub>4</sub>, G1<sup>1</sup>/<sub>2</sub>)

Size	Flow (scfm)	Range (psi)	Element	Drain	Model
G 3/4	515 scfm (243 dm <sup>3</sup> /sec)	12-125 psi	40	Manual	SB70K-8G-M3D/RGLN
			40	Automatic	SB70K-BG-A3D/RGLN
G 1 1/2	600 scfm (283 dm <sup>3</sup> /sec)	12-125 psi	40	Manual	SB70K-8G-M3D/RGLN
			40	Automatic	SB70K-BG-A3D/RGLN

### Option Selector

Sample Model Number → **S B 7 0 K - A B - M 3 D / R G M N - 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 19**

**0**

**S** = Shavo

**1**

Product

**B** = Filter cum Regulator Combination Unit

**2 3**

Series

**70** = "VAYU" 1" Basic

**4**

Type

**K** = Knob Type (Nitrile Elastomers)  
**[E]** = Knob Type (EPDM Elastomers)  
**[V]** = Knob Type (Viton Elastomers)  
**[Z]** = Knob Type (Low temp. Nitrile elastomer)  
**[H]** = Square headed screw (Low temp. Nitrile)  
**[Q]** = Square headed screw (EPDM Elastomers)  
**[U]** = Square headed screw (Viton Elastomers)  
**[Y]** = Square headed screw (Nitrile Elastomers)

**5**

Size

**6** = 3/4  
**8** = 1"  
**A** = 1 1/4"  
**B** = 1 1/2"  
**C** = 2" (with adaptor)

**6**

Port Thread

	Main Port	Gauge Port
<b>A</b>	NPT	BSPT
<b>B</b>	BSPT	BSPT
<b>G</b>	BSP	BSPT
<b>N</b>	NPT	NPT

**7**

Filter Drain

**M** = Manual  
**A** = Automatic (with Nitrile)  
**S** = Semi-Auto (with Nitrile)

**8**

Filter Element

**1** = 05 M Porous Plastic  
**2** = 25 M Porous Plastic  
**3** = 40 M Porous Plastic  
**6** = 05 M Sintered Bronze  
**7** = 25 M Sintered Bronze  
**8** = 40 M Sintered Bronze

**9**

Filter Bowl

**D** = Metal Bowl with Sight Glass  
**[M]** = Metal Bowl without sight glass

**10**

Relief

**R** = Relieving  
**N** = Non Relieving

**11**

Gauge

**N** = No Gauge  
**G** = With Gauge (without any approval)

**12**

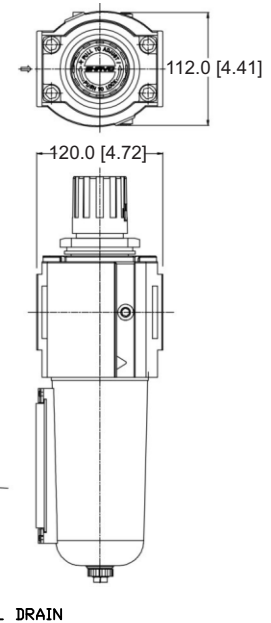
Sec. Pr. Range

**C** = 3-30 psig (0.21 - 2.1 bar)  
**E** = 5-50 psig (0.35 - 3.5 bar)  
**L** = 12-125 psig (0.87 - 8.75 bar)  
**M** = 15-150 psig (1.0 - 10.0 bar)  
**+S** = 25-250 psig (1.7 - 17.5 bar)  
 [only avbl with square headed]

**13**

Mounting & Accessories

**N** = No Mounting  
**L** = With 'L' Type Bracket  
**B** = With Wall Mounting Bracket



14 15 16 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 Certificatio/Approval
[O]	[O]	[O]	Other Customer Special Requirement if Any

17 18 19 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.

+[ ] Option is only available with Square headed screw.