

# IR FILTER / REGULATOR - - VAYU™ INTERMEDIATE

**SHAVO**  
FIRST NAME IN PNEUMATICS

SB20 (G ¼, G ⅜, G ½)

## FEATURES

- Shavo's Vayu™ Series Intermediate Range Filter/Regulator combination unit is an efficient space saving design for general applications in compressed air systems where effective contamination filtration, liquid water removal and controlled pressure is required.



PARAMETERS	SPECIFICATIONS	
Pipe Threads	G 1/4, 3/8, 1/2 Parallel Taper (F)	- Standard
	BSPT. / NPT	- Optional
Body Material	Al. Alloy die-cast	
Filter Element Size	5, 25, 40 micron.	
Filter Element Material	Plastic (Polypropylene)	- Standard
	Sintered Bronze	- Optional
Filter Bowl Material	Transparent Polycarbonate	- Standard
	Al. Alloy Metal	- Optional
Maximum intel Pressure	with PC Bowl(Manual/Auto/Semi-auto drain) : 150 psig (10.5 bar)	
	with Metal Bowl (Manual drain) : 250 psig (17.5 bar)	
	with Metal bowl (Auto / Semi-auto drain) : 150 psig (10.5 bar)	
Maximum Operating Temperature (ambient)	with PC Bowl : 50° C	
	with Metal Bowl : 80° C	
Standard Nominal Flow Rate at 10 bar (150 PSI)	1/4	104 scfm (50 dm³/sec) CV(1.96)
Inlet pressure 6 bar (87 PSI) set pressure and a drop of 1 bar (14.5 PSI) from set	3/8	177 scfm (84 dm³/sec) CV(3.35)
	1/2	272 scfm (130 dm³/sec) CV(5.14)
Drain	Manual	- Standard
	Automatic (upto 10.5 bar only)	- Optional
Regulator Type	Relieving	- Standard
	Non - Relieving	- Optional
Pressure Adjustment	Non-rising plastic knob	- Standard
	Metal "T" Handle /Hex Headed	- Optional
Regulated secondary outlet Pressure (spring range) and recommended Pressure gauge range available (in bar)	Spring Range	Gauge Range
	6 - 60 psi (0.40 to 4.0 bar)	0 - 60 psi (0 to 7 bar)
	12 - 125 psi (0.87 to 8.75 bar)	0 - 150 psi (0 to 10 bar)
	15 - 150 psi (1.0 to 10.0 bar)	0 - 220 psi (0 to 16 bar)
	3 - 30 psi (0.21 to 2.1 bar)	0 - 60 psi (0 to 4 bar)
	25 - 250 psi (1.75 to 17.5 bar)	0 - 290 psi (0 to 20 bar)
Gauge size	40 mm dial size	
Gauge Port size	Rc 1/8	
Gauge connection	Back	
Mounting Bracket	Optional	
Panel Mounting	Standard - Available	

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

Note : Pressure gauge will not have CE, EAC and SIL3 approval.

Automatic drain and Semi-automatic drain available with Nitrile elastomer only.

SB20 (G 1/4, G 3/8, G 1/2)

Size	Flow (scfm) (dm <sup>3</sup> /sec)	Element (um)	Drain	Bowl	Range (psi)	Operation	Model
G 1/4	104 scfm (50 dm <sup>3</sup> /sec)	40	Auto Manual	Transparent	12 - 125 psi	Relieving	SB20K-2G-A2P/RNLN SB20K-2G-M2P/RNLN
G 3/8	177 scfm (84 dm <sup>3</sup> /sec)	40	Auto Manual	Transparent	12 - 125 psi	Relieving	SB20K-3G-A2P/RNLN SB20K-3G-M2P/RNLN
G 1/2	272 scfm (130 dm <sup>3</sup> /sec)	40	Auto Manual	Transparent	12 - 125 psi	Relieving	SB20K-4G-A2P/RNLN SB20K-4G-M2P/RNLN

Option Selector

Sample Model Number → **S B 2 0 K - 2 B - M 2 P / R G M N** □

Position → **0 1 2 3 4 - 5 6 - 7 8 9 / 10 11 12 13 14**

**0** S = Shavo

**1** Product B = Filter Cum Regulator Combination Unit

**2 3** Series 20 = "Vayu" - 3/8 Basic

**4** Type

- K = Knob Type (Nitrile Elastomers)
- [E] = Knob Type (EPDM Elastomers)
- [V] = Knob Type (Viton Elastomers)
- [Z] = Knob Type (Low temp.Nitrile elastomers)
- [T] = T Handle Type (Nitrile Elastomers)
- [F] = T Handle Type (EPDM Elastomers)
- [W] = T Handle Type (Viton Elastomers)
- [L] = T Handle Type (Low temp.Nitrile elastomers)
- [H] = Hex headed type (Low temp.Nitrile elastomers)
- [Q] = Hex headed type (EPDM elastomers)
- [U] = Hex headed type (Viton elastomer)
- [V] = Hex headed type (Nitrile elastomers)

**5** Size

- 2 = 1/4"
- 3 = 3/8"
- 4 = 1/2"

**6** Port Thread

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

**7** Drain

- M = Manual
- A = Automatic (avbl.with Nitrile elastomer only)
- S = Semi-Auto (avbl with Nitrile elastomer only)

**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** Bowl

- P = P. C. Bowl with Guard
- D = Metal Bowl with Sight Glass
- [M] = Metal bowl without sight glass

**10** Relief

- R = Relieving
- N = Non - Reliving

**11** Gauge

- N = No Pr. Gauge
- G = With Pr. Gauge(without any cert.)

**12** Sec. Pr. Ange

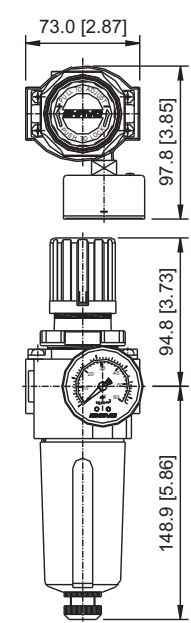
- C = 3 - 30 psi (0.21 - 2.1 bar)
- F = 6 - 60 psi (0.4 - 4 bar)
- L = 12 - 125 psi (0.87 - 8.75 bar)
- M = 15 - 150 psi (1.0 - 10.0 bar)
- \*[S] = 25 - 250 psi (1.70 - 17.5 bar)

**13** Mounting & Accessories

- N = No MTG. Bracket
- B = Wall Bracket Fitted

**14** Test

- X = Standard unit.
- C = CE
- E = EAC
- S = SIL3
- G = CE, EAC
- H = CE, SIL3
- J = EAC, SIL3
- K = CE, EAC, SIL3
- O = Other customer reqmt.if any



Note : Option shown in [ ] bracket are special, please contact sale HQ or manufacturing.  
\* [ ] option available with hex headed pressure adjustment only.