

FILTER REGULATOR MODEL SB20L BROCHURE



Filter Regulator Model SB20L

FEATURES

Filter/Regulator combination unit for process control 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.

CE, ATEX, EAC Ex (CUTR 12), EAC(CUTR 10) approved.

SIL3 capable as per IEC 61508.

PARAMETERS	SPECIFICATIONS
Fluid	Compressed Air
Pipe size	1/4", 3/8", 1/2"
Pipe Thread	BSP - Standard BSPT, NPT - Optional
Max. Inlet Pressure	17.5 bar (250 psi)
Max. Operating Temp.(Ambient)	+80°C
Filter Element Size	25 micron - Standard 5, 40 micron - Optional.
Filter Element Material	Porous Plastic - Std. Sintered Bronze - Optional
Material of Construction Body, Bonnet, Bowl Internal parts External parts	Aluminium Alloy die-cast. Aluminium, SS304,SS316L,Acetal resin,Nylon,Brass etc SS 316L
Diaphragm Assembly	Synthetic Rubber without PTFE - Standard
Elastomer	Low Temperature Nitrile -40°C to +80°C(std) EPDM -35°C to +120°C Fluorocarbon (Viton-FKM) -20°C to +180°C
Bowl Capacity	135 ml.
Regulated secondary pressure ranges	1.0 to 10.0 bar (15.0 - 150 psi) - Standard 0.21 to 2.1 bar (3.0 - 30 psi) - Optional 0.4 to 4.0 bar (6.0 - 60 psi) - Optional 0.87 to 8.75 bar (12.5 - 125 psi) - Optional 1.70 to 17.5 bar (25 - 250 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" - 104 scfm (50 dm3/sec) 3/8" - 177 scfm (84 dm3/sec) 1/2" - 272 scfm (130 dm3/sec)
CV Value	1/4" - (1.96) 3/8" - (3.35) 1/2" - (5.14)
Drain	Manual - Standard
Regulator Type	Relieving - Standard Non - Relieving - Optional
Pressure Adjustment	Hex headed screw - Std T handle - Optional
Gauge Port (2 nos.)	1/8" BSPT (Fe) - Standard 1/8" NPT(Fe) - Optional
Gauge Size (dial size)	50mm (Nominal) - Std.
Mounting	P.M. Nut - Standard(SS 316L) Mounting Bracket - Optional
Weight	0.9 Kgs.

*Pressure Gauge (scale) : Kg/cm² (PSI) - Standard (For Domestic Market)

*Bar (PSI) - Standard (Export)

Note : Pressure gauge will have ATEX approval.

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



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Size	Flow (scfm)	Element (um)	Drain	Bowl	Range (psi)	Operation	Model
G 1/4	104 scfm (50 dm3/sec)	40	Manual	Metal	12 - 125 psi	Relieving	SB20-2G-M7D-RNLN-A
G 3/8	177 scfm (84 dm3/sec)	40	Manual	Metal	12 - 125 psi	Relieving	SB20-3G-M7D-RNLN-A
G 1/2	272 scfm (130 dm3sec)	40	Manual	Metal	12 - 125 psi	Relieving	SB20-4G-M7D-RNLN-A

+ Value indicated are with 40 micron elements with finer element these values will be lower.

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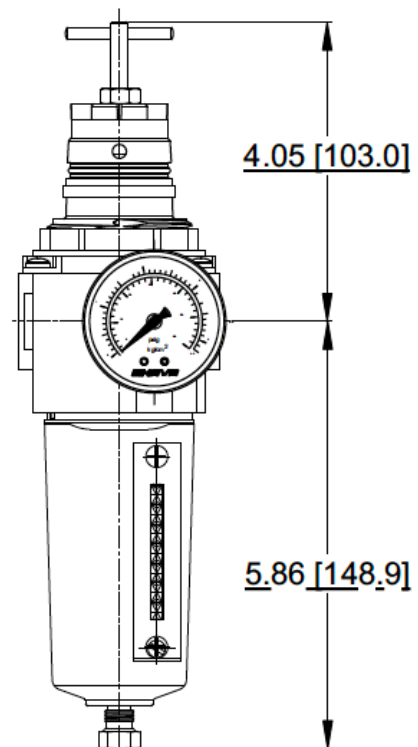
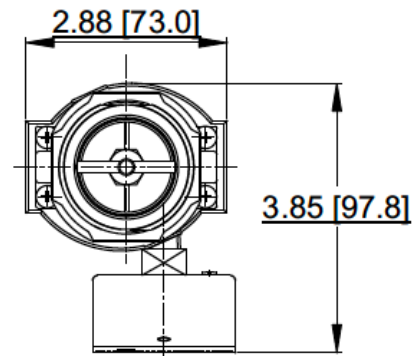
SB20L (G ¼, G ⅜, G ½)

Option Selector

Sample Model Number → **S B 2 0 K - 2 B - M 2 P / 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	20 = "Vayu" - 3/8 Basic															
4	Type	L = Low Temp.Nitrile Elastomers - T handle (SS316L) [F] = EPDM Elastomers- T handle (SS316L) [W] = Fluorocarbon (Viton)Elastomers- T handle (SS316L) [H] = Low Temp.Nitrile Elastomers -Hex headed screw (SS316L) [Q] = EPDM Elastomers-Hex headed screw (SS316L) [U] = Fluorocarbon (Viton)Elastomers-Hex headed screw (SS316L)																
5	Size	2 = 1/4" 3 = 3/8" 4 = 1/2"																
6	Port Thread	<table><tr><td></td><td>Main Port</td><td>Gauge Port</td></tr><tr><td>A</td><td>NPT</td><td>BSPT</td></tr><tr><td>B</td><td>BSPT</td><td>BSPT</td></tr><tr><td>G</td><td>BSP</td><td>BSPT</td></tr><tr><td>N</td><td>NPT</td><td>NPT</td></tr></table>			Main Port	Gauge Port	A	NPT	BSPT	B	BSPT	BSPT	G	BSP	BSPT	N	NPT	NPT
	Main Port	Gauge Port																
A	NPT	BSPT																
B	BSPT	BSPT																
G	BSP	BSPT																
N	NPT	NPT																
7	Drain	M = Manual																
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	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(SS316) (with ATEX approved-50 mm)																
12	Sec. Pr. range	C = 0.21 - 2.10 bar (3.0 - 30 psi) F = 0.40 - 4.00 bar (6.0 - 60 psi) L = 0.87 - 8.75 bar (12.5 - 125 psi) M = 1.00 - 10.00 bar (15.0-150 psi) *[S]= 1.75 - 17.50 bar (25.0 - 250 psi)																
13	Mounting & Accessories	N = No MTG. bracket B = Wall bracket Fitted(S.S.316) L = With 'L' type bracket (S.S.316)																



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SB20L (G ¼, G ¾, G ½)

"A"	0	"I)"	"ATEX"				
"A"	0	1	"UKIEX"				
"A"	0	2	"UKCA"				
"A"	0	3	"ATEX"	UKEX	EAC IEx	UKCA"	
"A"	0	4	"ATEX"	UKEX	EAC Ex"		
"A"	0	5	"ATEX"	UKEX	UKCA"		
"A"	0	6	"ATEX"	UKEX	EAC Ex"		
"B"	0	"I)"	"ATEX"	CE"			
"B"	0	1	"ATEX"	CIE	UKEX	EAC Ex	UKCA"
"B"	0	2	"ATEX"	CE	UKEX	EAC Ex"	
"B"	0	3	"ATEX"	CE	UKEX	UKCA"	
"B"	0	4	"ATEX"	CE	UKCA	EAC Ex"	
"B"	0	5	"ATIEX"	CIE	EAC Ex"		
"C"	0	"I)"	"CIE"				
"C"	0	1	"CE	UKEX	EAC Ex	UKCA"	
"C"	0	2	"CIE	UKEX	EAC Ex"		
"C"	0	3	"CE	UKEX	UKCA"		
"C"	0	4	"CE	EAC Ex	UKCA"		
"C"	0	5	"CE	EAC Ex"			
"D"	0	"I)"	"ATEX"	EAC"			
"D"	0	1	"ATEX"	EAC	UKEX	EAC Ex	UKCA"
"D"	0	2	"ATEX"	EAC	UKEX	EAC Ex"	
"ID"	0	3	"ATEX"	EAC	UKEX	UKCA"	
"D"	0	4	"ATEX"	EAC	EAC Ex	UKCA"	
"E"	0	"I)"	"EAC"				
"E"	0	1	"EAC	UKEX	IEAC Ex	UKCA"	
"E"	0	2	"EAC	UKEX	EAC Ex"		
"E"	0	3	"EAC	UKEX	UKCA"		
"E"	0	4	"EAC	EAC Ex	UKCA"		
"F"	0	"I)"	"ATEX"	SIIL3"			
"F"	0	1	"ATEX"	SIL3	UKEX	EAC Ex	UKCA"
"F"	0	2	"ATEX"	SIL3	UKEX	EAC Ex"	
"F"	0	3	"ATEX"	SIL3	UKEX	UKCA"	
"F"	0	4	"ATEX"	SIL3	EAC Ex	UKCA"	
"F"	0	5	"ATEX"	SIL3	EAC Ex"		
"G"	0	"I)"	"CE	EAC"			
"G"	0	1	"CE	EAC	UKEX	EAC Ex	UKCA"
"G"	0	2	"CE	EAC	UKEX	EAC Ex"	
"G"	0	3	"CE	EAC	UKEX	UKCA"	
"G"	0	4	"CE	EAC	IEAC IEx.	U KCA"	
"H"	0	"I)"	"CE	SIL3"			
"H"	0	1	"CE	SIL3	UKEX	EAC Ex	UKCA"
"H"	0	2	"CE	SIL3	UKEX	EAC Ex"	
"H"	0	3	"CIE	SIL3	UKEX	UKCA"	
"H"	0	4	"CE	SIL3	IEAC Ex	UKCA"	
"H"	0	5	"CE	SIIL3	EAC Ex"		
"J"	0	"I)"	"EAC	SIL3"			
"J"	0	1	"EAC	SIL3	UKEX	EAC Ex	UKCA"
"J"	0	2	"EAC	SIL3	UKEX	EAC Ex"	
"J"	0	3	"EAC	SIL3	UKEX	UKCA"	
"J"	0	4	"EAC	SIL3	EAC IEx	UKCA"	
"K"	0	"I)"	"CE	EAC	Silil3"		



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