

FILTER REGULATOR MODEL SB20P BROCHURE



Filter Regulator Model SB20P

FEATURES

Compact 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
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	Aluminium Alloy die-cast. Aluminium, SS304,SS316L,Acetal resin,Ny- lon,Brass etc
External parts	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 1.0 ranges	1.0 to 10.0 bar (15.0 - 150 psi) - Standard ranges 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.



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SB20P (G 1/4, G 3/8, G 1/2)

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

- CE, ATEX, EAC Ex (CUTR 12), EAC(CUTR 10) approved.
- SIL3 capable as per IEC 61508.

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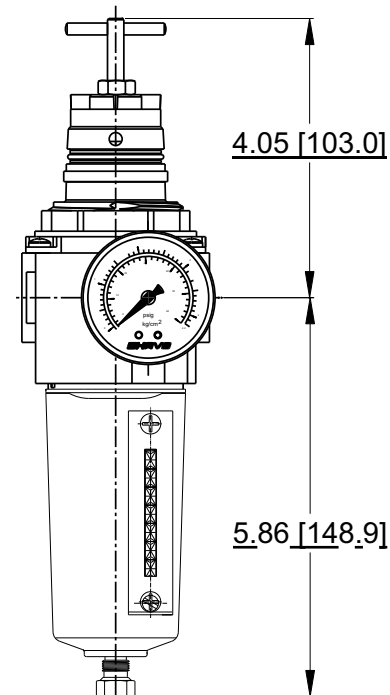
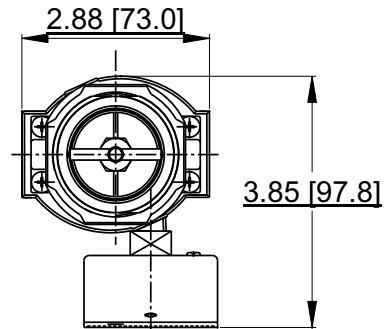
SB20 (G 1/4, G 3/8, G 1/2)

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 border="1"> <thead> <tr> <th></th><th>Main Port</th><th>Gauge Port</th></tr> </thead> <tbody> <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> </tbody> </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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14 15 16 Test / Approval

A	0	0	ATEX
A	0	1	UKEX
A	0	2	UKCA
A	0	3	ATEX, UKEX, EAC Ex, UKCA
A	0	4	ATEX, UKEX, EAC Ex
A	0	5	ATEX, UKEX, UKCA
A	0	6	ATEX, UKEX, EAC Ex
B	0	0	ATEX, CE
B	0	1	ATEX, CE, 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	ATEX, CE, EAC Ex
C	0	0	CE
C	0	1	CE, UKEX, EAC Ex, UKCA
C	0	2	CE, UKEX, EAC Ex
C	0	3	CE, UKEX, UKCA
C	0	4	CE, EAC Ex, UKCA
C	0	5	CE, EAC Ex
D	0	0	ATEX, EAC
D	0	1	ATEX, EAC, UKEX, EAC Ex, UKCA
D	0	2	ATEX, EAC, UKEX, EAC Ex
D	0	3	ATEX, EAC, UKEX, UKCA
D	0	4	ATEX, EAC, EAC Ex, UKCA
E	0	0	EAC
E	0	1	EAC, UKEX, EAC Ex, UKCA
E	0	2	EAC, UKEX, EAC Ex
E	0	3	EAC, UKEX, UKCA
E	0	4	EAC, EAC Ex, UKCA
F	0	0	ATEX, SIL3
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	0	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, EAC Ex, UKCA
H	0	0	CE, SIL3
H	0	1	CE, SIL3, UKEX, EAC Ex, UKCA
H	0	2	CE, SIL3, UKEX, EAC Ex
H	0	3	CE, SIL3, UKEX, UKCA
H	0	4	CE, SIL3, EAC Ex, UKCA
H	0	5	CE, SIL3, EAC Ex
J	0	0	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 Ex, UKCA
K	0	0	CE, EAC, SIL3

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K	0	1	CE, EAC, SIL3, UKEX, EAC Ex, UKCA
K	0	2	CE, EAC, SIL3, UKEX, UKCA
K	0	3	CE, EAC, SIL3, UKEX, EAC Ex
K	0	4	CE, EAC, SIL3, EAC Ex, UKCA
L	0	0	ATEX, EAC, SIL3
L	0	1	ATEX, EAC, SIL3, UKEX, EAC Ex, UKCA
L	0	2	ATEX, EAC, SIL3, UKEX, EAC Ex
L	0	3	ATEX, EAC, SIL3, UKEX, UKCA
L	0	4	ATEX, EAC, SIL3, EAC Ex, UKCA
M	0	0	ATEX, CE, SIL3
M	0	1	ATEX, CE, SIL3, UKEX, EAC Ex, UKCA
M	0	2	ATEX, CE, SIL3, UKEX, EAC Ex
M	0	3	ATEX, CE, SIL3, UKEX, UKCA
M	0	4	ATEX, CE, SIL3, EAC Ex, UKCA
N	0	0	ATEX, CE, EAC
N	0	1	ATEX, CE, EAC, UKEX, EAC Ex, UKCA
N	0	2	ATEX, CE, EAC, UKEX, EAC Ex
N	0	3	ATEX, CE, EAC, UKEX, UKCA
N	0	4	ATEX, CE, EAC, EAC Ex, UKCA
[O]	[0]	[0]	Other customer special requirement if Any
P	0	0	ATEX, CE, EAC, SIL3
P	0	1	ATEX, CE, EAC, SIL3, UKEX, EAC Ex, UKCA
P	0	2	ATEX, CE, EAC, SIL3, UKEX, EAC Ex
P	0	3	ATEX, CE, EAC, SIL3, UKEX, UKCA
P	0	4	ATEX, CE, EAC, SIL3, EAC Ex, UKCA
Q	0	0	ATEX, EAC Ex
R	0	0	EAC Ex
R	0	1	EAC Ex, UKEX, UKCA
R	0	2	EAC Ex, UKCA
S	0	0	SIL3
S	0	1	SIL3, UKEX, EAC Ex, UKCA
S	0	2	SIL3, UKEX, EAC Ex
S	0	3	SIL3, UKEX, UKCA
S	0	4	SIL3, EAC Ex, UKCA
V	0	0	ATEX, CE, SIL3, EAC Ex
V	0	1	ATEX, CE, SIL3, EAC Ex, UKEX, UKCA
V	0	2	ATEX, CE, SIL3, EAC Ex, UKEX
V	0	3	ATEX, CE, SIL3, EAC Ex, UKCA
X	X	X	STANDARD UNITS WITHOUT ANY CERTIFICATE / APPROVAL
Y	0	0	ATEX, SIL3, EACEx
y	0	1	ATEX, SIL3, EACEx, UKEX, UKCA
Y	0	2	ATEX, SIL3, EAC Ex, UKEX
Y	0	3	ATEX, SIL3, EACEx, UKCA
Z	0	1	CE, SIL3, EAC Ex, UKEX, UKCA
Z	0	2	CE, SIL3, EAC Ex, UKEX
Z	0	3	CE, SIL3, EAC Ex, UKCA

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17 18 19

Compliance

X	X	X	Standard Unit Without any Complince
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 : Options shown in [] bracket are special, please contact manufacturing.

* [S] option available with Hex headed pressure adjustment only.



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