

FILTER REGULATOR MODEL SB60 BROCHURE



Filter Regulator Model SB60

SB60 (G 1/4, G 3/8, G1/2, G 3/4, G 1)

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", 3/4", 1"
Pipe Thread	BSP - Standard BSPT, NPT - Optional
Max. Inlet Pressure	17.5 bar (250 psig)
Max. Operating Temp.(Ambient)	80° C
Filter Element Size	25 micron - Std. 5,40 micron - Optional
Filter Element Material	Sintered Bronze - Standard Porous Plastic - Optional
Material of Construction Body, Bonnet, Bowl Internal parts	Aluminium Alloy die-cast. Aluminium,SS304, SS316L, Acetal resin, Nylon,Brass etc
External parts	SS 316L
Diaphragm Assembly	Synthetic Rubber without PTFE - Standard
Elastomer	Low Temp.Nitrile (NBR) -40°C to +80°C (Std) EPDM -35°C to +120°C Fluorocarbon (Viton-FKM) -20°C to +180°C
Bowl Capacity	270 ml.
Regulated secondary pressure ranges	1.0 to 10.0 bar (15.0 - 150 psi) - Standard 0.4 to 4.0 bar (6.0 - 60 psi) - Optional 0.87 to 8.75 bar (12.5 - 125 psi) - Optional 0.21 to 2.10 bar (3 - 30 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) 3/4", 1" - 383 scfm (182 dm3/sec)
CV Value	1/4" - (1.96) 3/8" - (3.43) 1/2" - (7.02) 3/4", 1" - (7.24)
Drain	Manual - Standard
Regulator Type	Relieving - Standard Non-Relieving - Optional
Pressure Adjustment	Hex headed screw - Std T handle - Optional
Gauge Port	1/8" BSPT (Fe) - Standard 1/8" NPT (Fe) - Optional
Gauge size (dial size)	50 mm (Nominal) - Std.
Mounting	Panel Mounting - Standard Mounting Bracket - Optional
Weight	1.40 Kgs.

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



Note: Pressure gauge will have the ATEX approval.

Pressure gauge will not have CE,EAC, SIL3 and NACE MR0175 approval.

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

Bar (PSI) - Standard (Export)

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Size	Flow (scfm)	Element (um)	Drain	Bowl	Range (psi)	Operation	Model
G 1/4	104 scfm (50 dm3/sec)	25	Manual	Metal	12 - 125 psi	Relieving	SB60N-2G-M7D/RNLN-A
G 3/8	177 scfm (84 dm3/sec)	25	Manual	Metal	12 - 125 psi	Relieving	SB60N-3G-M7D/RNLN-A
G 1/2	272 scfm (130 dm3/sec)	25	Manual	Metal	12 - 125 psi	Relieving	SB60N-4G-M7D/RNLN-A
G 3/4	383 scfm (182 dm3/sec)	25	Manual	Metal	12 - 125 psi	Relieving	SB60N-6G-M7D/RNLN-A
G 1	383 scfm (182 dm3/sec)	25	Manual	Metal	12 - 125 psi	Relieving	SB60N-8G-M7D/RNLN-A

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

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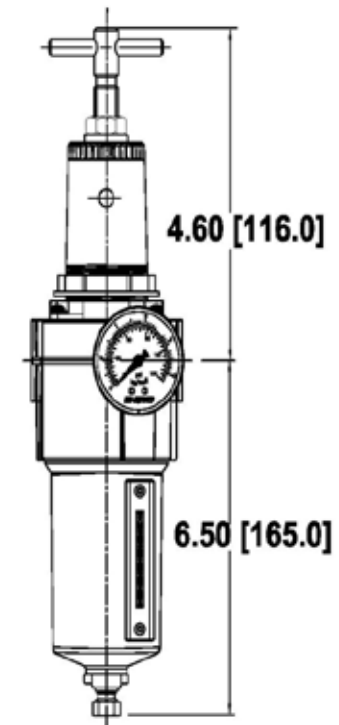
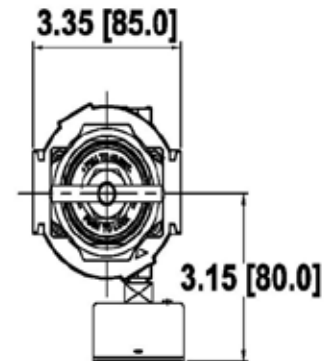
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Option Selector

Sample Model Number → **S B 6 0 T - 4 B - M 7 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	60 = "Vayu" - 1/2" 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 = 3/4" [8] = 1" (with external Aluminium adaptor)															
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)(50mm (with ATEX approved))															
12	Sec. Pr. Range	C = 0.21 to 2.10 bar (3.0 - 30 psi) F = 0.4 to 4.0 bar (6.0 - 60 psi) L = 0.86 to 8.6 bar (12.5 - 125 psi) M = 1.0 to 10.0 bar (15.0 - 150 psi) *[S] = 1.70 to 17.5 bar (25 - 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 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 : Options shown in [] bracket are special, please contact manufacturing.

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



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