

VOLUME BOOSTER SVB60-SH4N BROCHURE



Volume Booster SVB60-SH4N

VB60 (G 1/2, G 3/4) (SS316L) - HIGH FLOW

FEATURES

- Type 60 Volume Booster amplifies the volume at a 1:1 ratio whenever input isolation or increased flow capacity is required.
- High capacity Volume Booster, with a fixed minimum deadband, are designed to substantially improve the stroking speed of large actuators.
- An integral adjustable bypass valve provide good operational system stability over wide range of actuator sizes.
- Soft Valve seat design minimizes air consumption.
- CE, ATEX, EAC [(CUTR-10) equivalent to GOST R &K] approved.
- All External parts are NACE MR 0175* approved.
- SIL3 capable as per IEC 61508.

(*National Association of Corrosion Engineers MR-0175 defines requirements for sulphide stress cracking resistant materials used in oilwells and corrosive environments).



ATEX Version

PARAMETERS	SPECIFICATIONS
Fluid	Compressed Air
Pipe size	1/2" , 3/4"
Pipe Thread (Supply/output connection)	NPT - Standard BSPT, BSP - Optional
Signal Connection	1/4" NPT - Standard
Signal / Output Ratio	1 : 1
Supply Pressure	150 psig (10 bar) maximum (not to exceed actuator rating)
Signal / Output Pressure	100 psig (7.0 bar) maximum
Flow Capacity Standard Nominal Flow Rate at 150 psi (10 bar) inlet pressure 87 psi (6 bar) set pressure and a drop of 14.5 psi(1 bar) from set	1/2" or 3/4" - 200 scfm (5670 lpm) CV : 3.80
Flow capacity (CV)	Exhaust : 3.80 Output : 3.80
Signal to output ratio	1:1 5% of 100 psi output span
Material of Construction Body, Spacer, Top cover Internals wetted parts	SS316L SS316L, SS304 etc.
Elastomers	Low temperature Nitrile : -60 C to +80 C
Weight	5.5 Kgs.
Gauge (dial size)	50 mm nominal - Std.



Non ATEX Version

Note :Screw, mounting bracket and pressure gauge will not be NACE MR 0175 approved.

Pressure gauge will be ATEX approved.

Pressure gauge will not be CE, SIL3,EAC approved.

Gauge dial size 50mm standard.

Exhaust port - M8 tapped.

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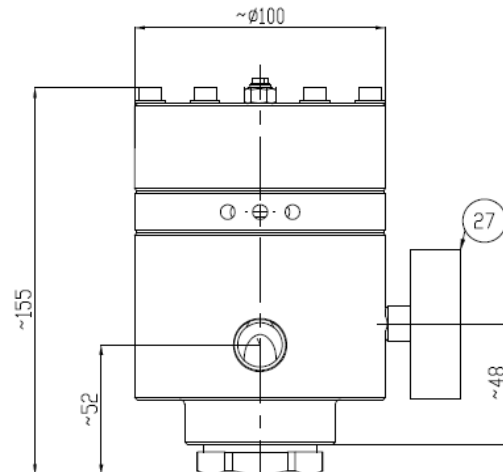
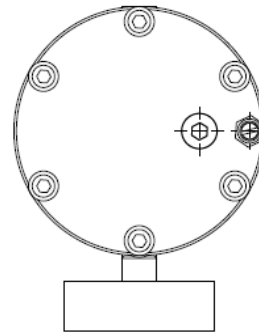
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Option Selector

Sample Model Number → **S V B 6 0 - S H 4 A - N B - X X X - N - X X X**

Position → **0 1 2 3 4 - 5 6 7 8 - 9 10 - 11 12 13 - 14 - 15 16 17**

0		S = Shavo																					
1	2	Product	VB = Volume Booster																				
3	4	Series	60 = Basic Designer																				
5		Basic MOC	S = SS316L MOC (Body, Spacer, Top cover)																				
6		Flow	H = High Flow																				
7		Size	4 = 1/2" 6 = 3/4"																				
8		Port Threads	<table><tr><th>Type</th><th>Main Port</th><th>Gauge Port</th><th>Signal Port</th></tr><tr><td>A</td><td>NPT</td><td>BSPT</td><td>1/4" NPT</td></tr><tr><td>B</td><td>BSPT</td><td>BSPT</td><td>1/4" BSPT</td></tr><tr><td>G</td><td>BSP</td><td>BSPT</td><td>1/4" NPT</td></tr><tr><td>N</td><td>NPT</td><td>NPT</td><td>1/4" NPT</td></tr></table>	Type	Main Port	Gauge Port	Signal Port	A	NPT	BSPT	1/4" NPT	B	BSPT	BSPT	1/4" BSPT	G	BSP	BSPT	1/4" NPT	N	NPT	NPT	1/4" NPT
Type	Main Port	Gauge Port	Signal Port																				
A	NPT	BSPT	1/4" NPT																				
B	BSPT	BSPT	1/4" BSPT																				
G	BSP	BSPT	1/4" NPT																				
N	NPT	NPT	1/4" NPT																				
9		Elastomer Material	L = Low Temperature NBR																				
10		Mounting	N = No Mounting Bracket [B] = Standard Mounting Bracket																				



11 12 13 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

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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
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

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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

14 Pressure Gauge

N = No Gauge
[G] = With Pressure Gauge
(0-16 kg/cm². without ATEX,CE,SIL3 approved.)

15 16 17 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)

Options shown in [] brackets are special, please contact sales HQ / manufacturing.



Manderlay House
Manderlay Gardens
Emley
West Yorkshire
HD8 9TY

Email: enquiries@part-hunter.co.uk