

VB60 (G 1/4, G 3/8) (SS316L)

Features

- Shavo's 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.
- SIL3 capable as per IEC 61508.
- All External parts are NACE MR 0175* approved.

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

PARAMETERS	SPECIFICATIONS
Fluid	Compressed Air
Pipe size	1/4" , 3/8"
Pipe Thread	NPT - Standard
(Supply/output connection)	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	1/4" Output – 110 scfm, Cv – 1.8 3/8" Output – 150 scfm, Cv – 2.5
Flow capacity (CV)	1/4" Exhaust – 1.3 3/8" Exhaust – 1.8
Signal to output ratio	1:1 ±5% of 100 psi output span
Maximum Operating Temperature	+80°C
Linearity	±1% (FS)
Material of Construction	
Body, Spacer, Top cover	SS316L
Internals wetted parts	SS316L, SS304 etc.
Elastomers	Low Temperature Nitrile : -60°C to +80°C
Weight	1.9 Kgs.

Note :Screw, mounting bracket will not be NACE MR 0175 approved.
Exhaust port - M8 tapped (optional).



ATEX version



Non-ATEX version

VB60 (G 1/4, G 3/8) (SS316L)

Option Selector

Sample Model Number →

S	V	B	6	0
---	---	---	---	---

 -

S	S	4	A
---	---	---	---

 -

L	G
---	---

 -

X	X	X
---	---	---

 -

X	X	X
---	---	---

Position →

0	1	2	3	4
---	---	---	---	---

 -

5	6	7	8
---	---	---	---

 -

9	10
---	----

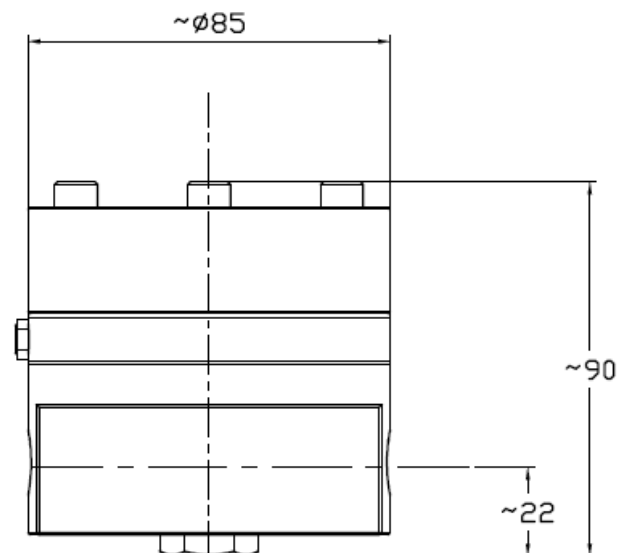
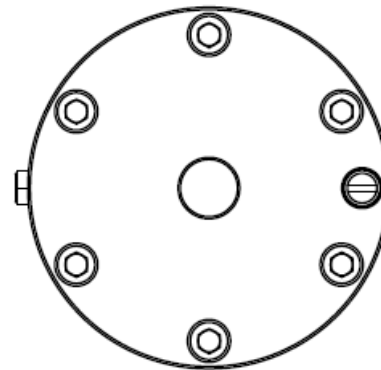
 -

11	12	13
----	----	----

 -

14	15	16
----	----	----

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	S = Standard Flow												
7		Size	2 = 1/4" 3 = 3/8"												
8		Port Threads	<table><tr><th>Type</th><th>Main Port</th><th>Signal Port</th></tr><tr><td>N</td><td>NPT</td><td>1/4" NPT</td></tr><tr><td>B</td><td>BSPT</td><td>1/4" BSPT</td></tr><tr><td>G</td><td>BSP</td><td>1/4" NPT</td></tr></table>	Type	Main Port	Signal Port	N	NPT	1/4" NPT	B	BSPT	1/4" BSPT	G	BSP	1/4" NPT
Type	Main Port	Signal Port													
N	NPT	1/4" NPT													
B	BSPT	1/4" BSPT													
G	BSP	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

VB60 (G 1/4, G 3/8) (SS316L)

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

VB60 (G 1/4, G 3/8) (SS316L)

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

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)

14	15	16
----	----	----

 Compliance

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