

SBV Pulsation Dampers

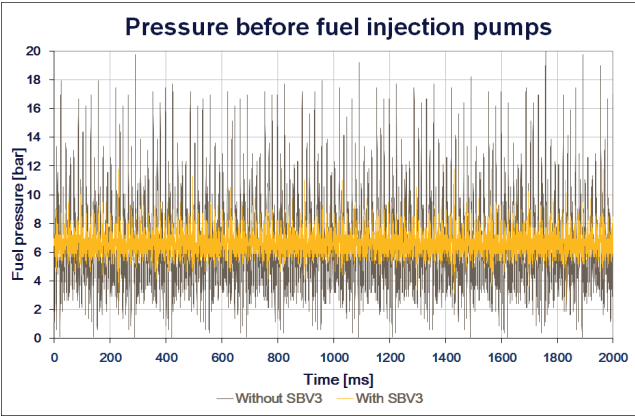
Silicone SBV3 Series, up to 40 bar



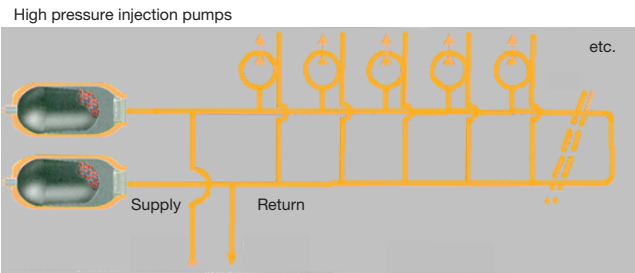
Product Description

The SBV3 pulsation damper is specially designed for installation on low pressure fuel systems, typically in Marine and Power Generation applications, to attenuate pressure pulses.

The patented technology removes all risks and maintenance associated with pressurised gas and no precharge is required as Silicone particles are used instead. This third generation of damper integrates the brand new S2 rubber mix which offers improved longevity and efficiency and the new stem adapter which provides greater reliability.



Typical Installation Example



1. Silicone Port	Can be connected to drain pan through spill detection system or valve
2. Shell	Material: Carbon Steel Maximum working pressure: 40 bar Nominal Capacities: 0.5, 1 or 2.5 Litres
3. Bladder	Mix compound S2 type HBBR; specially developed to be compatible with fuel types HFO & MDO and high temperature environments.
4. Fluid port	With reinforced strainer, G2" compatible with a large range of adaptors and manifolds

Benefits

The new generation of SBV offers enhanced longevity, delivering stable performance levels 35% longer than the SBV2. The new stem adapter reduces the risk of leakage; 2 to 3 times lower than the SBV2 and an improved strainer prevents silicone parts from entering the fuel system.

Easy to install and use

The SBV3 is installed on the diesel engine inlet outlet or outlet fuel lines. The bottom side is connected to the fuel system and the external connection on the top side, to a spill detection system. No additional fluids or gas precharge are required and its lightweight construction makes it easier to handle and transport.

Improved safety

The new stem adapter with 2 sealing zones significantly reduces the risk of hot fluid contact during inspection and maintenance. Its high pressure safety factor and enhanced leak prevention also provide improved safety features.

Efficiency and Reliability

Offering a product lifetime of 35% longer than its former model the SBV3 offers better value for money and peace of mind. A robust shell design and improved stem adapter optimize this product for high stress and fatigue.

Extending System Life – Cost Saving!

The reduction of pressure peaks in the fuel system will prevent damage to pumps/instrumentation and reduce the costs associated with system maintenance and repair.

Approvals

CE or PED 2014/68/EU Artical 4.3
BV Marine

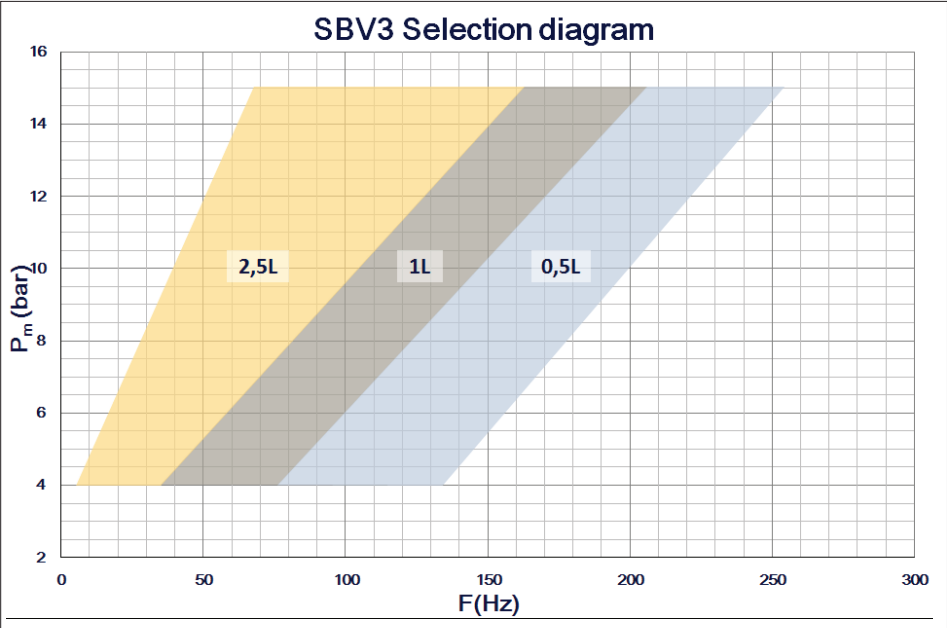
SMB3 Series: How to select the right SBV3

Two pieces of information are required to select the most suitable SBV3 model for your system:

- F(Hz): Fundamental frequency of pulsations
- P_m (bar): Mean pressure in the circuit

To select:

1. Using the adjacent diagram, find the fundamental frequency and the mean pressure.
2. Select the right model in the shaded area.



SMB3 Series: How to order

SBV3 0.5 40 / 00 A S2 K M 1 00

Product Type
SBV3 : Silicon low pressure bladder

Volume in L (up to 4 Characters)
0.5 - for 0,5 Liter
1.0 - for 1,0 Liters
2.5 - for 2.5 Liters

Maximum Working Pressure According to CE*
40 - for 40 bar max working pressure

Approvals*
00 - According to the PED2014/68/EU, article 4.3
11 - According CE & BV Marine
13 - According PED article 4.3 & BV Marine

Material (Shell and Fluid Port)
A - All parts in carbon steel with Epoxy paint for shell only (11)

Bladder Mix
S2 - Compound S2 type HNBR

Fluid Port Configuration
K - G2" according to ISO228

Silicone Port Configuration
L - No gas valve - pipe connection Ø10mm
M - No gas valve - pipe connection Ø8mm

Fluid Type
1 - Fluid Type 1 CE Fluid Group 1

Special
00 - No Special features or configuration
ZZ - Special configuration or several options

Technical Specifications

Pressure

Maximum working pressure: PS = 40 bar

Operating pressure OP: 3 to 15 bar.

Pre-charge pressure

No precharge pressure requested.

Bladder filled with silicone particles.

Material of construction

Shell in forged carbon steel with epoxy paint Bladder mix S2 HNBR.

Temperature range

Standard construction: -10 to +150°C.

System fluids

Suitable for diesel oil and heavy oil (MDO&HFO)

Product approved for fluid group 1 according to PED

Approvals

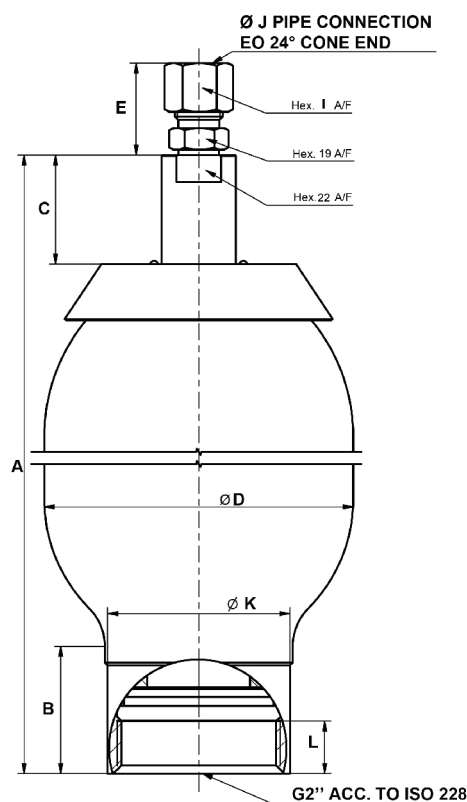
Compliance PED : article 4.3* or CE

BV Marine

Installation

Vertical (fluid port on bottom side), preferable to horizontal.

User manual is delivered with the damper.



Type	Part Number	Volume Litres	Weight Kg	Dimensions (mm)								
				A	B	C	ØD	E	I	ØJ	ØK	L
SBV3 0.5-40/00-AS2KM-100	092686011S2	0.5	3	261	46	40	90	28	17	8	68	24
SBV3 1.0-40/13-AS2KM-100	092390011S2	1	6	289	47	40	116	34	22	10	68	19
SBV3 2.5-40/11-AS2KL-100	092391011S2	2.5	10	463	47	40	116	34	22	10	68	19

The dimensions given in the table above are in mm and the manufacturing tolerances are not taken into account
Patents applied in most major industrial countries.

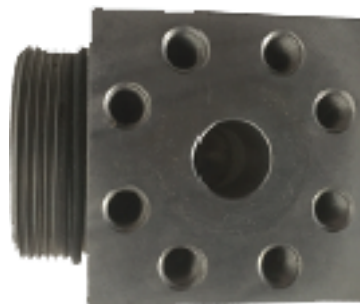
*From 07/2016 PED97/23/EC Article 3.3 becomes PED2014/68/EU Article 4.3

Accessories

Manifold :

- DIN
- JIS
- ANSI

and substitute existing solution in SAE 3000 psi



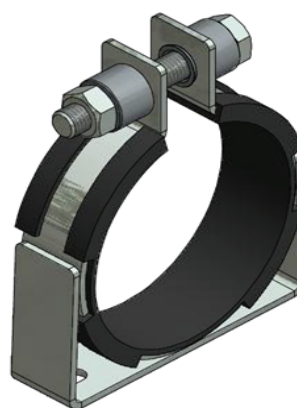
Clamps :

Temperature 150°C

Construction in Zinc plated – Silicon rubber

SBV3-E95

SBV3-A114



Other Accessories :

- Pipe Kit's for monitoring the Bladder up to 150°C
- Ball valve – Connector – clamps
 - in Carbone Steel coating CF
- Pipe :
 - Carbone steel coating CF
 - Stainless steel 1.4571
 - Copper (pipe)

For more information plesae contact your local Parker sales office.

Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates,
Dubai

Tel: +971 4 8127100
parker.me@parker.com

AT – Austria, Wiener Neustadt

Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener
Neustadt

Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

AZ – Azerbaijan, Baku

Tel: +994 50 22 33 458
parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles

Tel: +32 (0)67 280 900
parker.belgium@parker.com

BG – Bulgaria, Sofia

Tel: +359 2 980 1344
parker.bulgaria@parker.com

BY – Belarus, Minsk

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

CH – Switzerland, Etoy

Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com

CZ – Czech Republic, Klecany

Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst

Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup

Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid

Tel: +34 902 330 001
parker.spain@parker.com

FI – Finland, Vantaa

Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve

Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Athens

Tel: +30 210 933 6450
parker.greece@parker.com

HU – Hungary, Budaoers

Tel: +36 23 885 470
parker.hungary@parker.com

IE – Ireland, Dublin

Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IT – Italy, Corsico (MI)

Tel: +39 02 45 19 21
parker.italy@parker.com

KZ – Kazakhstan, Almaty

Tel: +7 7273 561 000
parker.easteurope@parker.com

NL – The Netherlands, Oldenzaal

Tel: +31 (0)541 585 000
parker.nl@parker.com

NO – Norway, Asker

Tel: +47 66 75 34 00
parker.norway@parker.com

PL – Poland, Warsaw

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal, Leca da Palmeira

Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest

Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow

Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga

Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SK – Slovakia, Banská Bystrica

Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto

Tel: +386 7 337 6650
parker.slovenia@parker.com

TR – Turkey, Istanbul

Tel: +90 216 4997081
parker.turkey@parker.com

UA – Ukraine, Kiev

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

UK – United Kingdom, Warwick

Tel: +44 (0)1926 317 878
parker.uk@parker.com

ZA – South Africa, Kempton Park

Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

North America

CA – Canada, Milton, Ontario

Tel: +1 905 693 3000

US – USA, Cleveland

(industrial)
Tel: +1 216 896 3000

US – USA, Elk Grove Village

(mobile)
Tel: +1 847 258 6200

Asia Pacific

AU – Australia, Castle Hill

Tel: +61 (0)2-9634 7777

CN – China, Shanghai

Tel: +86 21 2899 5000

HK – Hong Kong

Tel: +852 2428 8008

ID – Indonesia, Tangerang

Tel: +62 21 7588 1906

IN – India, Mumbai

Tel: +91 22 6513 7081-85

JP – Japan, Fujisawa

Tel: +81 (0)4 6635 3050

KR – South Korea, Seoul

Tel: +82 2 559 0400

MY – Malaysia, Shah Alam

Tel: +60 3 7849 0800

NZ – New Zealand, Mt Wellington

Tel: +64 9 574 1744

SG – Singapore

Tel: +65 6887 6300

TH – Thailand, Bangkok

Tel: +662 186 7000

TW – Taiwan, New Taipei City

Tel: +886 2 2298 8987

VN – Vietnam, Ho Chi Minh City

Tel: +84 8 3999 1600

South America

AR – Argentina, Buenos Aires

Tel: +54 3327 44 4129

BR – Brazil, Cachoeirinha RS

Tel: +55 51 3470 9144

CL – Chile, Santiago

Tel: +56 2 623 1216

MX – Mexico, Toluca

Tel: +52 72 2275 4200

Ed. 2015-04-21

EMEA Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL,
IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

US Product Information Centre

Toll-free number: 1-800-27 27 537

www.parker.com

Your local authorized Parker distributor

