

VS Series Safety Valves



Picture Shown:
VSS Series Valve

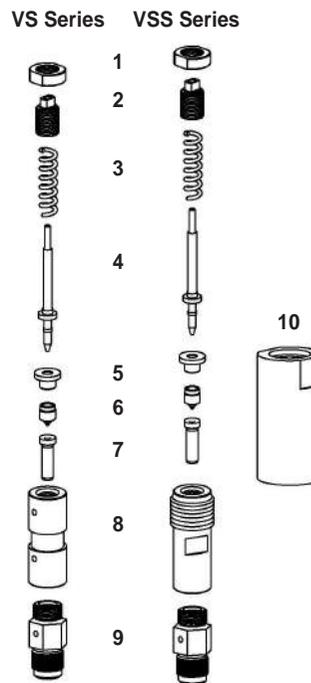
VS Series Safety Valves have been supplied globally and gained excellent reputation by its superb performance on marine propulsion and power generation diesel engines since 1976.

Features

- High temperature application: up to 600 °C (1112 °F)
- Working pressure: up to 413 bar (6000 psig)
- Valve provides metal to metal sealing for high temperature application.
- Sealing cone and bush seat are constructed out of excellent creep-resistant exotic alloy.
- When system pressure overcomes the set pressure, the valve opens to relieve the system pressure to atmosphere so as to prevent excess pressure in the system.
- Repeatability of set pressure is not more than 5% above or below of each valve after initial cracking at room temperature.
- VSS Series is provided for extra safety with the deflector cap.

Technical Information

- Working Pressure: 413 bar (6000 psig)
- Temperature Rating: -60 to 600 °C (-76 to 1112 °F)



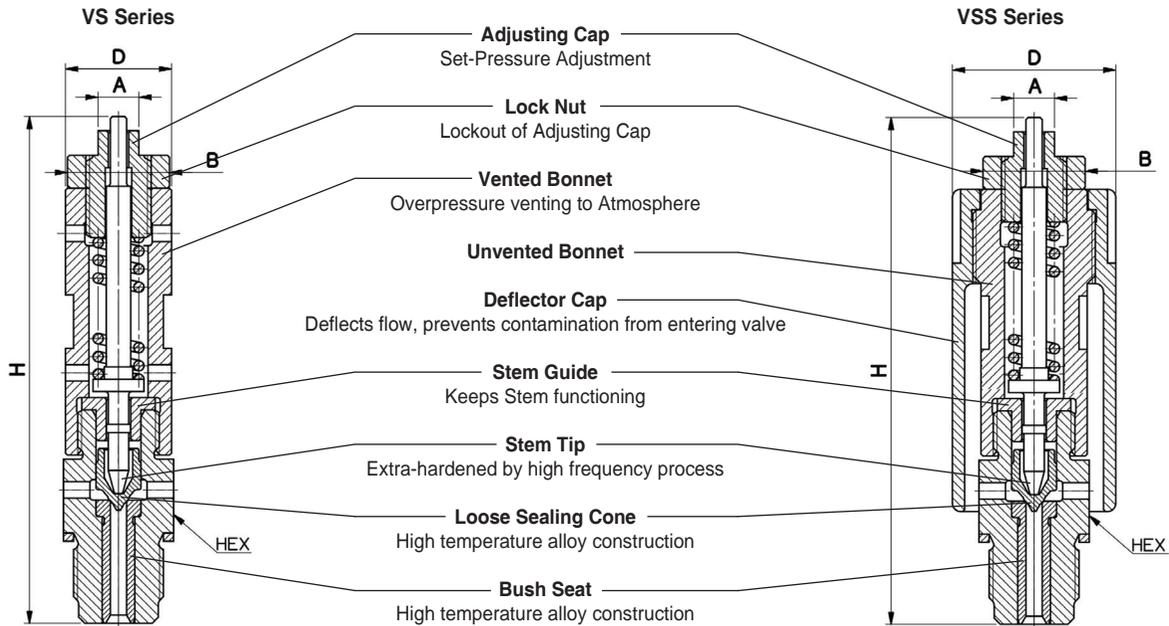
Materials of Construction

Components		Valve Body Material			
		SS304		SS316	
		VS Series	VSS Series	VS Series	VSS Series
		Material Grade /JIS, ASTM Standard			
1	Lock Nut	Black Phosphate coated Steel S45C-N/JIS G4051		SS316/ASTM A276, A479	
2	Adjusting Cap				
3	Spring	SWOSC-V/JIS G3561		SS17700 Type 631/ASTM A313	
4	Stem	SCM415/JIS G4053		SS316/ASTM A276, A479	
5	Stem Guide	SS304/A276, A479			
6	Sealing Cone	Alloy 80A UNS N07080/ASTM B637			
7	Bush Seat				
8	Bonnet	VS Series: Vented Bonnet VSS Series: Unvented Bonnet			
		SS304/A276, A479		SS316/ASTM A276, A479	
9	Vented Body	SS304/A276, A479		SS316/ASTM A276, A479	
10	Deflector Cap		Black Phosphate coated Steel S20C/JIS G4051		SS316/ASTM A276, A479

VS Series Safety Valves

Set Pressure Range

Spring Designator	Set Pressure Range	
	bar	psig
160	160 to 200	2320 to 2900
200	200 to 240	2900 to 3480
240	240 to 280	3480 to 4060



Ordering Information and Dimensions

Basic Ordering Number	End Connections Inlet	Orifice, mm (in.)	Dimensions, mm (in.)			Wrench Flat, mm (in.)		Net Weight, gram
			H	D	Hex	A	B	
VS- M22P15-	M22 x 1.5 Metric	4.0 (0.16)	123.20 (4.85)	25.0 (0.98)	27.0 (1 1/16)	10.0 (0.39)	22.0 (0.87)	388
M8N-	1/2 in. Male NPT			40.0 (1.57)				
VSS- M22P15-	M22 x 1.5 Metric	4.0 (0.16)	123.20 (4.85)	25.0 (0.98)	27.0 (1 1/16)	10.0 (0.39)	22.0 (0.87)	1040
M8N-	1/2 in. Male NPT			40.0 (1.57)				

Ordering Steps

Step 1. Select basic ordering number. i.e., VS-M8N-

Step 2. Insert the spring designator to the basic ordering number. VS-M-M8N-200-

Step 3. Select valve body material designator. SS304: **S4**, SS316: **SS** i.e., VS-M-M8N-200-**S4**

Factory Test

Every valve is factory-tested for cracking and resealing performance.

Dimensions

- All dimensions in this catalog are reference only and are subject to change.
- Dimensions with M Tube Fitting nuts are finger-tight position.

Product Cleaning

Valves are cleaned and packaged in accordance with HSME cleaning standard CS-01

Safe Valve Selection

The selection of a valve for any application or system must be considered to ensure safe performance. Valve rating, valve function, material compatibility, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. HSME Corporation accepts no liability for any improper selection, compatibility, installation, operation or maintenance.

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