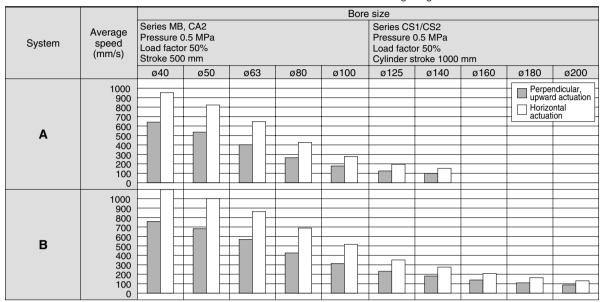


# Series VFS3000

## **Cylinder Speed Chart**

Use as a guide for selection. Please confirm the actual conditions with SMC Sizing Program.



**System Components** 

Cyst	bystem components					
System	Solenoid valve	Speed controller	Silencer	SGP (Steel pipe) Port size x Length		
А	Series VFS3000 Rc <sup>1</sup> / <sub>4</sub>	AS4000-02 (S = 24 mm <sup>2</sup> )	AN200-02 (S = 35 mm <sup>2</sup> )	6A x 1 m		
В	Series VFS3000 Rc <sup>3/</sup> 8	AS420-03 (S = 73 mm <sup>2</sup> )	AN300-03 (S = 60 mm <sup>2</sup> )	10A x 1 m		

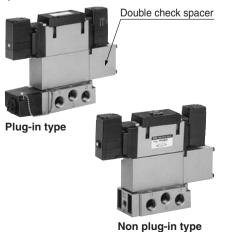


- \* It is when the cylinder is extending that is meterout controlled by speed controller which is directly connected with cylinder, and its needle valve with being fully open.
- \* The average velocity of the cylinder is the value that the stroke is divided by the total stroke time.
- Load factor: ((Load weight x 9.8)/Theoretical force) x 100%

### **Double Check Spacer/Specifications**

# Can hold an intermediate cylinder position for an extended time

If the double check spacer with a built-in double check valve is combined, it will enable the cylinder to stop in the intermediate stroke and maintain its position for a long time without being affected by the leakage between the spools.



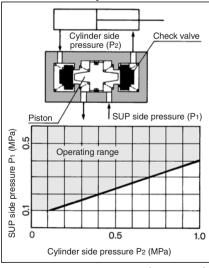
### **Specifications**

Double check	Plug-in type	Non plug-in type	
spacer part no.	VVFS3000-22A-1	VVFS3000-22A-2	
Applicable valve model	VFS3400-□F	VFS3410-□D VFS3410-□E	

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- In the case of 3 position double check valve (VFS36□0), check the leakage from piping and fittings in between valve and cylinder by means of synthetic detergent solutions, and ensure that there is no such leakage found there. Also check the leakage from cylinder seal and piston seal. If there is any leakage, sometimes the cylinder, when valve is de-energized, can move without stopping at intermediate position.
- Be aware that if the exhaust side is restricted excessively, the intermediate stopping accuracy will decrease and will lead to improper intermediate stops.

#### **Check Valve Operation**



The combination of VFS31<sup>0</sup><sub>1</sub>0, VFS32<sup>0</sup><sub>1</sub>0 and double check spacer can be used as prevention for falling at the stroke end but cannot hold the intermediate position of the cylinder.