



SEIBU ELECTRIC & MACHINERY CO.,LTD.

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Seibu Intelligent Valve Actuator

- **Sem flex[®]- VP Series**
(Part-turn type)



Future is made by combination of
the latest technology with reliability

1. All-round flexible function through intelligent technology
2. Capable of ubiquitous applications
3. Effective transmission mechanism

Sem flex is our registered trademark
Sem stands for **S**eibu **E**lectric & **M**achinery
flex stands for **F**low-**F**lexible

Customer's Advantages



Well-shaped externals (Small, light and compact)

Small, light and compact design.
(10% lighter than similar actuators of other manufacturers)



Perfect protection (Water protection/explosion proof)

Elimination of water-caused breakdowns through double sealing of terminal section and achieving protection standard IP68.

Protection of the actuator operating in hazardous area through optional explosion proof feature. (Exd BT4)



Easy maintenance (Reduction in inspection costs)

Reduction of maintenance time through drastic simplicity of structure ; Eco-design.

Improved reliability through reduced numbers of parts.

Display of the next due- inspection through a self-diagnosis warning system.(option)



Simple & Ubiquitous (Corresponds with communication facilities)

Immediate operation just by plugging in. (Built-in control panel is standard)

Superb reliability through all-in-one design.

Capable of easy connection to various telecommunication systems.(option)

Sem flex- VP Series



Complying Standards

- JIS (Japanese Industrial Standards)
- CE (European Community)
- UL (Under-writer's Laboratory)

Standard Functions

1. Electric and manual opening & closing
2. Non-intrusive set function (position & torque)
3. Switchover from electric to manual (switches back automatically to electric)
4. Liquid crystal indicator

Controller specifications

Function item	Semflex - VM Series Specification	Remarks
Main power supply	3 phase AC200/400V	
Control CPU	16bitCPU A/D D/A 16MHz	
LCD	Open (%) ·Alarm display icon	
Basic operation	Change of site and distance. Open, stop, and close operation	
Speed adjustment	A/BGear or Inverter(option)	
Position adjustmen	Position setting range: Max 5,000 turns 0%, 100% and Middle 3points freely	The rotational speed of drive sleeve is detected by electronic absolute encoder.
Torque adjustment	Able to set up freely between 30 ~ 100% of max torque and able to set it up every 1%.	The amount of the movement of worm is detected by non-contact potentiometer. Accuracy ± 5%
Backup	1 year after power supply off.	
Option	Proportion control Fieldbus (PROFIBUS-DP) Self-diagnosis function	

Mechanical specifications & Dimensions

Semflex-VP series	VP-01	VP-02	VP-06	VP-1	VP-2	
Max.output torque (Nm)	125	250	600	1000	2000	
Open - Close time (sec/90deg) 50/60Hz	Hi-speed type	9/7.5	18/15	18/15	18/15	36/30
	Low-speed t	18/15	36/30	36/30	36/30	72/60
Fitting flange size	F07	F07	F10	F12	F14	
Max.shaft dia. (mm)	28	28	42	60	60	
Ambient temperature	-20 ~ 80					
Protection structure	IP68, (Explosion protection Exd BT4 ; option)					
Weight (Kg)	25	25	30	52	52	
A	281		325		363	
B	104		130		191	
C	186		202		240	
D	167		191		287	
E	121		136		174	
F	70		110		110	
H	10		8		70	
I	379		396		462	
J	3		3		4	
K	68		65		141	
L _φ	55		70		100	
M	90		125		175	
PCD N	70		102		140	
O	M8		M10		M16	

For improvement of performance, design or outer dimensions are subject to change without notice.

(unit : mm)

External drawing

