# Series variation

4GA/B

MAGA/B
MN4GA/B
4GA/B
(master)
4GB
With sensor

4GD/E M4GD/E MN4GD/E 4GA4/B4 MN3E MN4E

W4GA/B2 W4GB4 MN3S0 MN4S0

4SA/B0

4KA/B

4KA/B

(master)

4F

4F

(master)

PV5G

GMF

PV5S-0

3Q

MV3QR 3MA/B0 3PA/B

P/M/B NP/NAP NVP

4G\*0EJ 4F\*0EX 4F\*0E

HMV HSV 2QV 3QV

SKH
Silencer
TotAirSys
(Total Air)
TotAirSys
(Gamma)

## **SKH Series**

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) ) :: :: :: :: :: :: ::	M	lode	ıl No.	Cylinder bore size	Appearance	Circuit configuration diagram	PLC I/O	Piping	Page
4 0 0 0	Variable speed unit	SKH- 320 SKH- 420		ø25 to ø50 ø40 to ø80	High speed solenoid valve  Decelerating solenoid valve  Relief valve  Manifold	Unit	(Sensor)	1) As the circuit unit for deceleration is integrated with the control solenoid valve, it is possible to drive the cylinder with only the unit. 2) The number of steps required for piping is the same as the cylinder driving circuit.	1858
	Varia	SKH- 520		ø63 to ø125					
		ends deceleration	SKH- 328	ø25 to ø50	Decelerating solenoid valve  Relief valve  Valve sub-plate	Unit	IN 2-point (Sensor) OUT 2-point (Valve)	As this is only a circuit unit for deceleration, a deceleration circuit can be structured by connecting additional piping to the solenoid valve circuit for control.	1858
	tion unit	Both ends	SKH- 428	ø40 to ø80					
	Deceleration unit	One-sided deceleration	SKH- 318	ø25 to ø50	Decelerating solenoid valve  Relief valve  Valve sub-plate	Unit	(Sensor) OUT 1-point (Valve)	1) As this is only a circuit unit for deceleration, a deceleration circuit can be structured by connecting additional piping to the solenoid valve circuit for control. 2) As this is a single-side deceleration unit, install the unit near the cylinder port.	1858
		One-sided	SKH- 418	ø40 to ø80					

Ending

### SKH Series

4GA/B

M4GA/B

MN4GA/B

4GA/B

(master

With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E MN4E

4GB

#### Operational principle

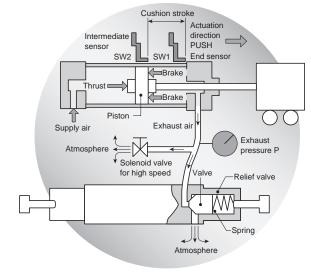
### Basic operational principle

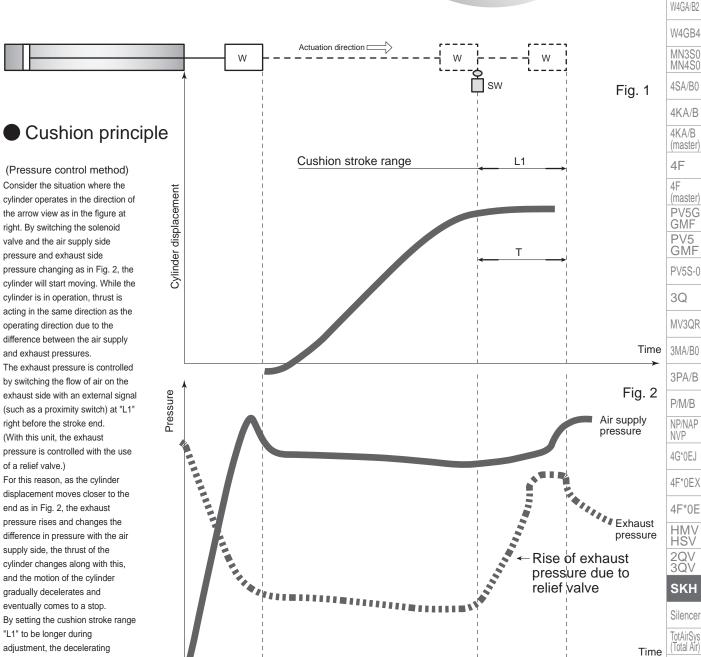
When starting to move, the air cylinder moves at a high speed by opening the solenoid valve for high speed and releasing the exhaust air into the atmosphere with a great amount of force. When the intermediate sensor (SW2) for operation of the cushion operates, the solenoid valve for high speed is closed and the flow of the exhaust air is controlled with a relief valve to decelerate the air cylinder.

Along with the piston movement, the exhaust pressure P will gradually increase up to the pressure configured by the springs of the relief valve to create an air brake working in the opposite direction of the thrust, causing the air cylinder to softly decelerate and eventually stop.

distance of the cylinder will become longer to allow for a smooth stop.
(In this case, the cushion time "T"

will become longer.)





TotAirSys (Gamma)

**Ending**