



## **AV-A Series Soft Start-up Valve**

# Improved features and related benefits

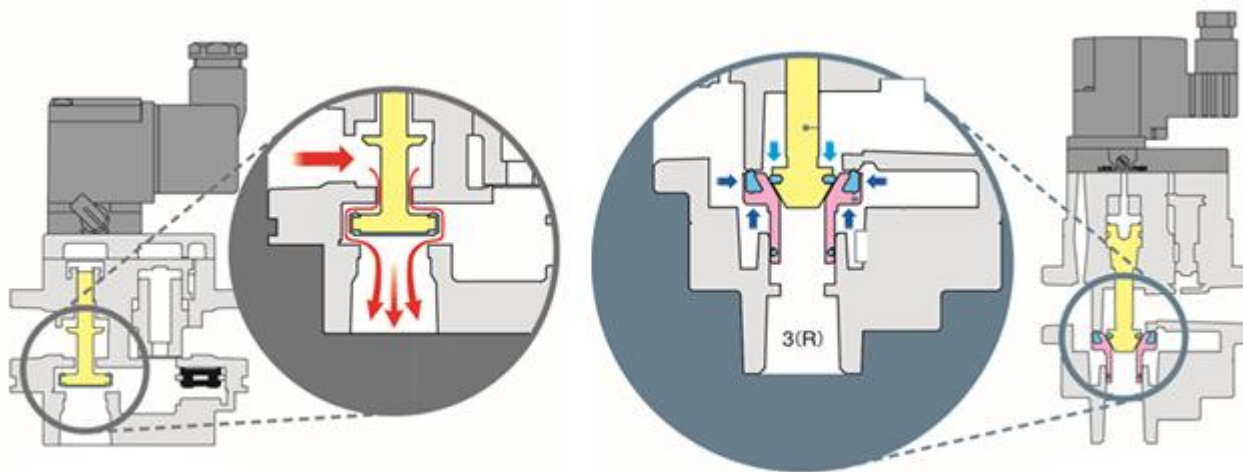
**FEATURE:** Reduced power consumption:

- Pilot valve changed from the SF4 to the V115
- Power consumption from 1.8 W to 0.35 W (without indicator light).

**CUSTOMER BENEFIT:** Energy savings with reduced power consumption, therefore cost saving and suitable for continuous energising.

**FEATURE:** New interior construction in which the main valve stays closed except during rapid supply conditions. If the pilot valve turns ON, the spool closes the exhaust port.

**CUSTOMER BENEFIT:** Energy savings due to preventing air leakage when the main valve is switched.



Current product  
(AV)

New product  
(AV-A)

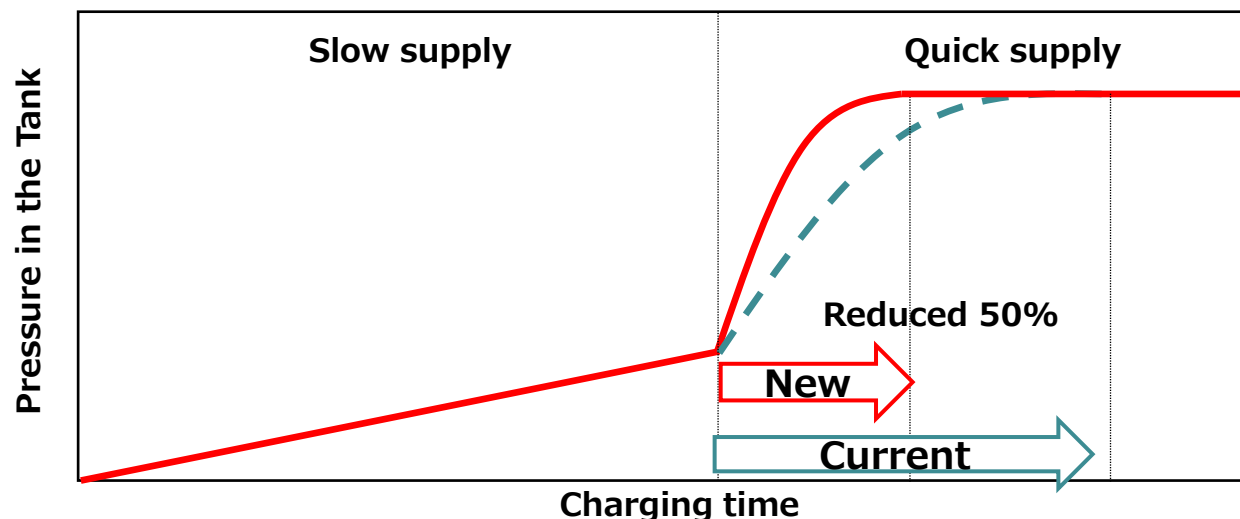
# Improved features and related benefits

**FEATURE:** Improved flow rate characteristics by up to 2.2 times

**CUSTOMER BENEFIT:** Cost-effective solution.

**FEATURE:** Rapid supply time has been reduced by up to 50%.

**CUSTOMER BENEFIT:** Faster commissioning.



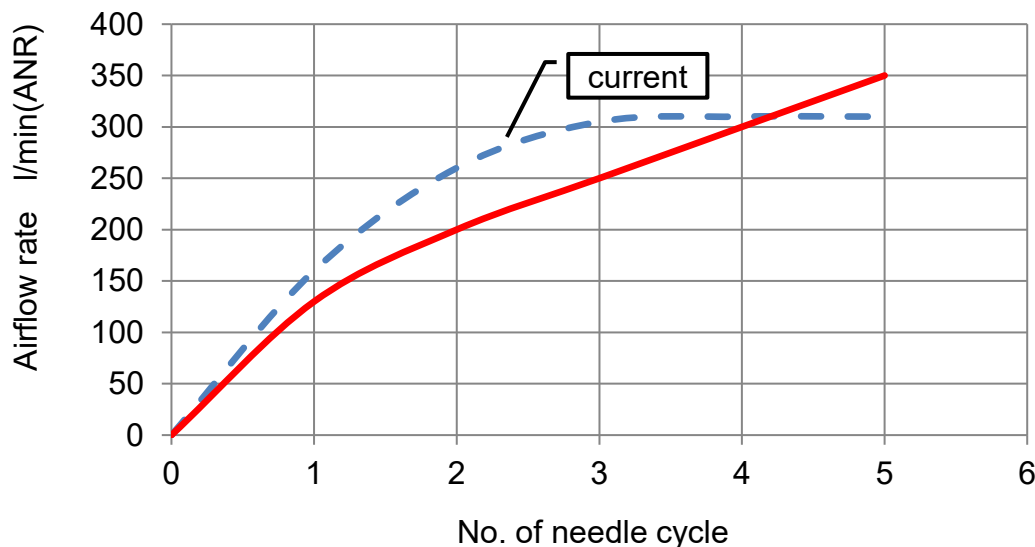
**FEATURE:** New interior construction that exhausts the residual pressure by opening the spool valve reducing exhaust time by up to 55%.

**CUSTOMER BENEFIT:** Reduced maintenance time.

# Improved features and related benefits

**FEATURE:** Better relationship between the needle rotations and the air flow.

**CUSTOMER BENEFIT:** Precise control.



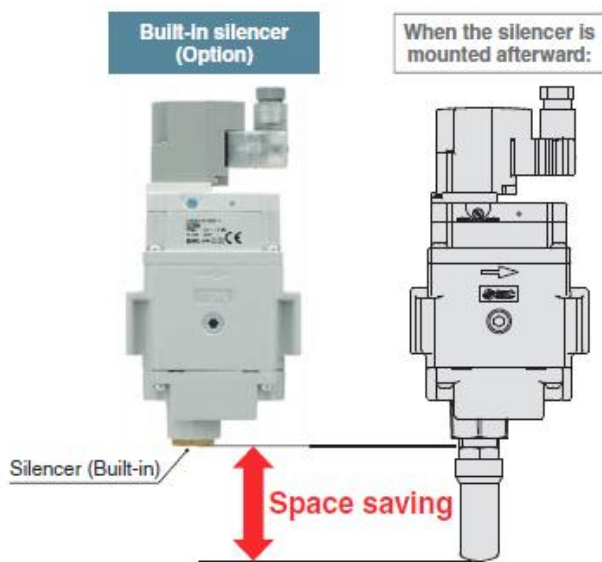
**FEATURE:** Modular connection for connecting to F.R.L. units.

**CUSTOMER BENEFIT:** Reduced installation space and less piping work required.

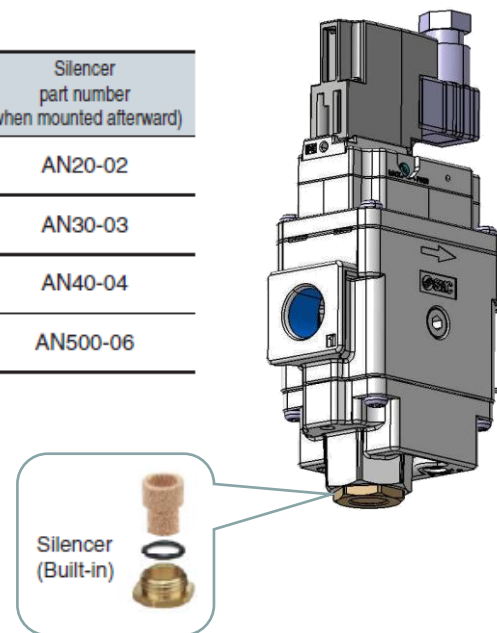
# Improved features and related benefits

**FEATURE:** Optional built-in silencer.

**CUSTOMER BENEFIT:** Saves on installation time and mounting space.



Model	Shortened dimensions [mm]	Silencer part number (when mounted afterward)
AV2000-□S-A	37	AN20-02
AV3000-□S-A	49	AN30-03
AV4000-□S-A	56	AN40-04
AV5000-□S-A	92	AN500-06



**FEATURE:** IP65 enclosure.

**CUSTOMER BENEFIT:** Flexibility for use in many different environments.

**FEATURE:** Urban white colour.

**CUSTOMER BENEFIT:** Standardisation with SMC new FRL series.

# Technical details

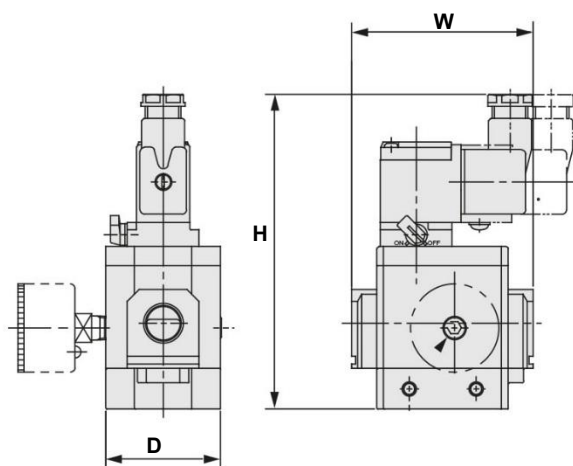
## ■ Standard specifications

	AV	AV-A
Fluid	Air	
Operating pressure range [MPa]	0.2 to 1.0	
Proof pressure	1.5 MPa	
Max. flow rate [l/min (ANR)]	6642	11908
Ambient and fluid temperature	0 to 60°C	0 to 50°C
Thread type	Rc, G, NPT	
Weight [g]	From 270 to 1540	From 430 to 1250
Electrical entry	DIN terminal	Grommet, DIN terminal
Rated coil voltage [V]	100, 200, 110 to 120, 220VAC (50/60Hz), 12, 24VDC	
Power consumption (DC24V)	1.8W	0.35W
Manual override	Non-locking push type (flush type) Locking type (tool required) Locking type (lever type)	Push-turn locking slotted type Push-turn locking lever type

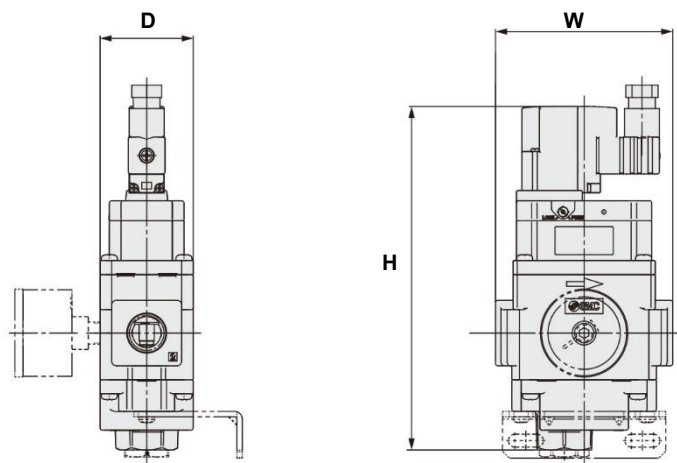
 Difference in specifications

# Technical details

## ■ Dimensions: DIN terminal



**Current product  
(AV)**



**New product  
(AV-A)**

[mm]	Port Size 1(P), 2(A)	H		W		D	
Model		AV	AV-A	AV	AV-A	AV	AV-A
AV2000	1/4	125	144	66	66	40	40
AV3000	3/8	132	147	76	76	48	40
AV4000	1/2	147	163	98	98	52	52
AV5000	3/4	175	168	128	128	74	74
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Difference in specifications