

# AIR LIMITER

## TACO S51 SERIES

### SPECIFICATIONS



GAUGE ON OPTION



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MODEL NO.	S51-1*1-※0***(Std.)		S51-1*1-※3**
FLUID	Filtered Clean Compressed Air, (by 5μm rated filter), No Oiliness		
PIPE SIZE	Rc <sup>1</sup> / <sub>8</sub> (Both IN port and OUT (Sensing) port)		
AMBIENT TEMPERATURE	5 ~ 50°C		
METERING ORIFICE	φ 0.7mm (Standard)		φ 1.2mm
SENSING GAP RANGE	0.01 ~ 0.15mm	0.16 ~ 0.3mm	0.01 ~ 0.15mm
	SUPPLY PRESSURE FOR IN PORT	0.2MPa	0.3MPa *2
	SENSING NOZZLE DIA.*1	φ 1mm	
	SENSING ACCURACY	±0.01mm	±0.02mm
AIR CONSUMPTION	10dm <sup>3</sup> /min (ANR)	13dm <sup>3</sup> /min (ANR)	30dm <sup>3</sup> /min (ANR)
CONTACT TYPE OF SWITCH	1c (Single Pole, Double Throw)		
PROTECTION SPECIFICATION	IP-67		
ELECTRICAL CONNECTION	G <sup>1</sup> / <sub>2</sub> Conduit port (Std.), or CAPCON or CORDLOCK added		
OUT PORT SENSING TUBING	φ 4mm I.D. tubing, max. 4m length		
AVAILABLE RANGE OF ELECTRIC CURRENT (TYPE OF SWITCH FOR OUTPUT)	<ul style="list-style-type: none"> <li>○ Small electric current type (for programable controllers); <ul style="list-style-type: none"> <li>• 1 ~ 100mA/AC100V or DC24V</li> </ul> </li> <li>○ High sensitive type; <ul style="list-style-type: none"> <li>• 30 ~ 100mA/AC100V</li> <li>• 20 ~ 100mA/AC200V</li> <li>• 35 ~ 100mA/DC24V</li> </ul> </li> </ul>		
PILOT LAMP & DARKNESS LEAKAGE CURRENT	<ul style="list-style-type: none"> <li>○ Neon Lamp/0.6mA: for use on models rated AC100/200V</li> <li>○ LED Lamp/0.85mA: for use on models rated DC24V</li> </ul>		
MASS	0.5kg		

\* 1. Use one sensing nozzle for one S51 Air limiter unit.

\* 2. Economiter is impossible to install in the system of 0.3MPa supply pressure.

### MODEL NOS. OF SINGLE UNIT

Metering Orifice	Type of switch Rated Voltage & Pilot Lamp	Small electric current type switch		High Sensitive Type Switch		
		AC100V NEON	DC24V *1 LED/RED	AC100V NEON	AC200V NEON	DC24V *1 LED/RED
φ 0.7mm	Basic Type	S51-101-0001	S51-101-0003 [S51-101-0004]	S51-101-000B	S51-101-000C	S51-101-000D [S51-101-000E]
	With Mobile Marker Gauge	S51-101-1001	S51-101-1003 [S51-101-1004]	S51-101-100B	S51-101-100C	S51-101-100D [S51-101-100E]
φ 1.2mm	Basic Type	S51-101-0301	S51-101-0303 [S51-101-0304]	S51-101-030B	S51-101-030C	S51-101-030D [S51-101-030E]
	With Mobile Marker Gauge	S51-101-1301	S51-101-1303 [S51-101-1304]	S51-101-130B	S51-101-130C	S51-101-130D [S51-101-130E]

◎ Manifold types are specified at 5th digit of model no. by inserting figure (2 ~ 5) that required for forming manifold : S51 - 1 □ 1 - \*\*\*\*\*

\* 1. Models for use of DC24V are available 2 kinds of switch wiring of ⊖COM wiring (Std.) and ⊕COM wiring. Model nos. of ⊕COM wiring are shown in brackets [ ] in above table.

### HOW TO ORDER

S51 - 1 □ 1 - □ □ □ □

⑤                      ⑦   ⑧   ⑨   ⑩

#### ⑤ Single unit or Manifold

0	Single unit
2~5	Manifold type and number of single units

#### ⑦ Pressure Gauge

0	without
1	with gauge of mobile marker type. Range: 0 ~ 0.4MPa

#### ⑧ Dia. of Metering Orifice

0	φ 0.7mm (Std.)
3	φ 1.2mm

#### ⑨ Types of Electrical Connection

0	G <sup>1</sup> / <sub>2</sub> conduit port
1	Capcon added
2	Cordlock added

#### ⑩ Current Capacity of switch / Rated Voltage

Small electric current type	1	1 ~ 100mA/AC100V
	3	3 ~ 100mA/DC24V (⊖COM wiring)
	4	3 ~ 100mA/DC24V (⊕COM wiring)
High sensitive type	B	30 ~ 100mA/AC100V
	C	20 ~ 100mA/AC200V
	D	35 ~ 100mA/DC24V (⊖COM wiring)
	E	35 ~ 100mA/DC24V (⊕COM wiring)