Control Series

Chemifit™ C1 Speed Controller

PushOne™ Type

Features

Suitable for environment (atmosphere) that requires chemical

Mostly made of special polypropylene resin and SUS304. Special EPDM is used for sealing material.

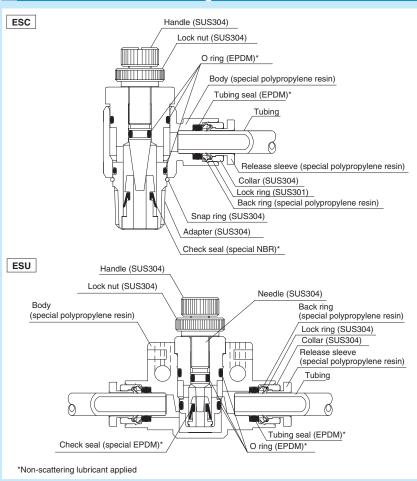
PushOne connection of tubing

Jig and tool not required for connecting the tubes.

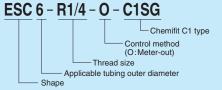
Inline type (ESU) allows central control on a pipe line

Various kinds of piping are possible by fixing with connector pins and brackets.

Cross-sectional structure diagram



Product number example Inline type connection





Inline type controllers can be connected with a connector pin.

Applicable tubing



(*1) Combinatory use of U2 or U1 tubing and Chemifit C1 speed controller mixes general and clean type performances.
When using them together in a clean environment, be aware of how this could lower the cleanliness

Clean-conscious product



Operating fluid, working temperature range

Operating fluid	Working temperature range
Air	+5°C~+60°C

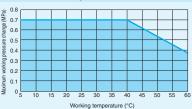
Pressure condition

Maximum working pressure:

0.7MPa(at20°C)

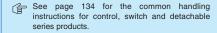
and the maximum working pressure

Maximum working pressure varies with working temperature (environmental temperature). For use at an abnormal temperature, always check the maximum working pressure change in the graph below and keep pressure within the range.

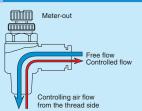


Handling instructions

- Caution: When the working conditions of tubes and fittings differ, use them under the lower specified conditions
- not by using a spanner.
- ▲ Caution: The needle part stops when fully opened. Forced rotation could cause damage.
- Caution: Cannot be used at a negative pressure.
- Caution: Non-scattering lubricant is applied to some parts. Contact us for details.
- **Caution:** Be sure to check the air flow direction when attaching a speed controller to equipment.
- Caution:Do not bend the pipe sharply near the tubing insertion port (sleeve end) of the fitting. Keep the tubing straight for twice as long as the tubing diameter from the insertion port.
- Caution: Cannot be used for sealing purposes



Control mechanism

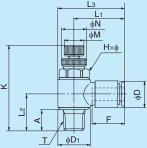


Reference

Flow characteristic graph ----- P.165

Elbow type





●Millimeter size type

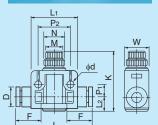
Product number	Applicable tubing outer	T Thread	Lı	L ₂	La	ı	<	Α	F Tubing insertion	H×¢ Width	N	М	D	D ₁	Weight
Product number	diameter (mm)	size (R)	(mm)	(mm)	(mm)	Full open (mm)	Full closed (mm)	(mm)	length (mm)	across flat (mm)	(mm)	(mm)	(mm)	(mm)	(g)
ESC4-R1/8-O-C1SG	4	R1/8	23.9	17.7	30.6	46.8	42.0	9.7	14	13.0×14.0	13.0	10.0	10.0	13.5	26.0
ESC6-R1/8-O-C1SG	6	R1/8	23.2	17.7	30.0	46.8	42.0	9.7	15	13.0×14.0	13.0	10.0	13.0	13.5	27.0
ESC6-R1/4-O-C1SG	6	R1/4	25.2	23.1	34.9	55.2	48.7	13.6	15	17.0×18.3	13.0	10.0	13.0	19.4	51.0
ESC8-R1/8-O-C1SG	8	R1/8	24.8	17.7	31.6	46.8	42.0	9.7	16	13.0×14.0	13.0	10.0	15.0	13.5	29.0
ESC8-R1/4-O-C1SG	8	R1/4	26.8	23.1	36.5	55.2	48.7	13.6	16	17.0×18.3	13.0	10.0	15.0	19.4	52.0
ESC8-R3/8-O-C1SG	8	R3/8	28.8	24.6	40.8	59.0	51.5	14.1	16	21.0×22.6	16.0	13.0	15.0	24.0	84.0
ESC10-R1/4-O-C1SG	10	R1/4	29.7	23.1	39.4	55.2	48.7	13.6	19	17.0×18.3	13.0	10.0	18.0	19.4	55.0
ESC10-R3/8-O-C1SG	10	R3/8	31.7	24.6	43.7	59.0	51.5	14.1	19	21.0×22.6	16.0	13.0	18.0	24.0	87.0
ESC12-R3/8-O-C1SG	12	R3/8	32.7	24.6	44.7	59.0	51.5	14.1	20	21.0×22.6	16.0	13.0	20.5	24.0	116.0

Inline type

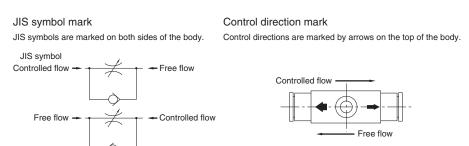
●Millimeter size type







Product number	Applicable tubing outer diameter (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	P ₁ (mm)	P ₂ (mm)	Full open (mm)		F Tubing insertion length (mm)	N (mm)	M (mm)	D (mm)	d (mm)	W (mm)	Weight
ESU4-C1SG	4	42.7	20.0	6.4	6.0	14.0	29.5	26.9	14	8.0	8.0	9.7	3.2	10.6	11.0
ESU6-C1SG	6	48.5	28.0	9.0	8.2	20.0	43.5	39.8	15	13.0	10.0	12.5	4.2	15.0	32.0
ESU8-C1SG	8	56.6	30.0	10.3	9.2	22.0	47.7	42.1	16	13.0	10.0	14.5	4.2	17.6	48.0



Connector pin (polypropylene resin)





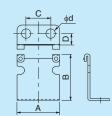


●Connector pin

Product number	Applicable fitting product number
HPN4-C1	ESU4-C1SG
HPN6-C1	ESU6-C1SG
TIFNO-CT	ESU8-C1SG

Bracket (SUS304)





Bracket

Product number	Applicable fitting product number	A (mm)	B (mm)	C (mm)	D (mm)	d (mm)
SBRK4	ESU4-C1SG	18.0	18.5	10.0	6.5	5.0
SBRK6	ESU6-C1SG	24.0	26.0	14.0	6.5	5.0
SBRK8	ESU8-C1SG	26.0	30.0	14.0	6.5	5.0