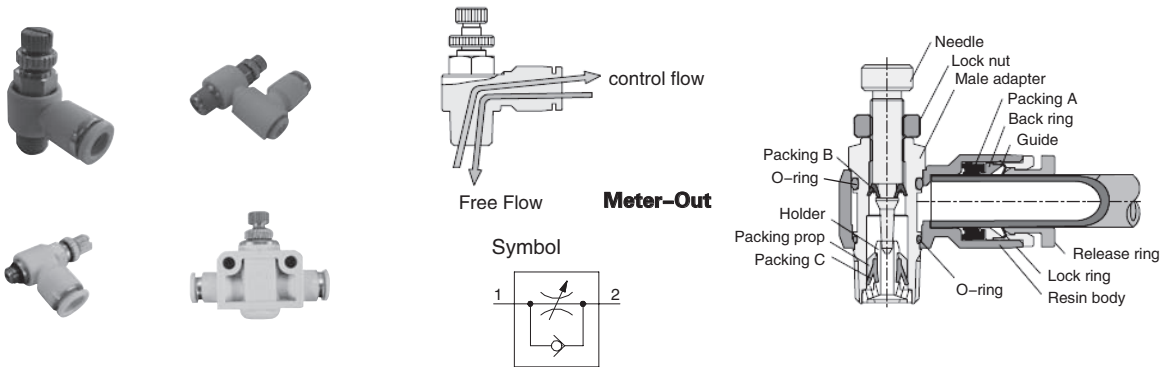


Elbow type speed controllers

WNS series



Main Features

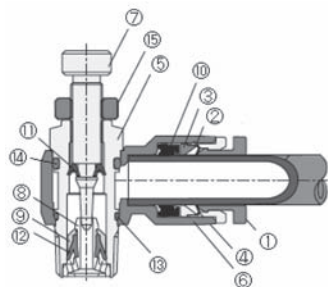
- ◆ Compact and light body for use in confined space
- ◆ Precisely controlling the wide range of airflow.
- ◆ Standard flame-resistant resin material PA and F/G.

Specifications

Description	unit	Speed controller
Fluid		Compressed air
Ambient temperature	°C	0 ~ 60
Operating pressure range	Mpa	0 ~ 0.9
Applicable tube		Polyurethane tube

Note) Working pressure value is when the temperature is 20°C .

Speed controllers



Parts No.	Parts name	Material	Parts No.	Parts name	Material
①	Release ring	POM	⑨	Packing prop	Brass
②	Guide	Zinc die-casting	⑩	Packing A	NBR (Nitrile)
③	Back ring	Zinc die-casting	⑪	Packing B	NBR (Nitrile)
④	Lock ring	SUS	⑫	Packing C	NBR (Nitrile)
⑤	Male adapter	Brass	⑬	O ring	NBR (Nitrile)
⑥	Resin body	PBT	⑭	O ring	NBR (Nitrile)
⑦	Needle	Brass	⑮	Lock nut	Aluminium
⑧	Holder	Brass			

How to order

10 pcs per 1 set

WNSE - 06 - 01 C - O

WNSE : Elbow type		O : Meter-out type with knob
WNSS : Universal type		blank : Standard type
WNSF : In-line type		C : Compact type
Applicable tube O.D		
04 : 4mm	10 : 10mm	M3 : M3 × 0.5
06 : 6mm	12 : 12mm	M5 : M5 × 0.8
08 : 8mm		01 : R1/8
		02 : R1/4
		03 : R3/8
		04 : R1/2

Caution

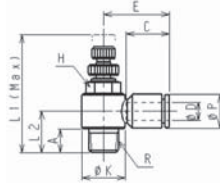
●Speed adjustment of actuator

To prevent accidents due to the actuator's sudden movement, please adjust the speed from a completely closed position.

●Do not use the universal type when there is a regular rotation.

●The seal is coated on its coupling in advance. The seal can be used up to 2 or 3 times.

Elbow type



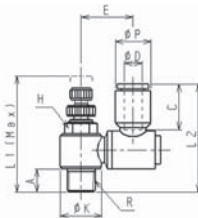
mm

Ref.	A	C	φ D	E	H	φ K	L1 (Max)	L2	φ P	R (Male)	Mass (g)
WNSE04-M5-O	3.5	14.5	4	18.5	8	10	31	10.7	9	M5 x 0.8	8.1
WNSE04-01-O	8	14.5		21	10	14.4	39.8	14	9	R1/8	17.5
WNSE06-M5-O	3.5	15.2	6	21	8	10	31	10.7	11.4	M5 x 0.8	9.1
WNSE06-01-O	8	15.2		22.1	10	14.4	39.8	14	11.4	R1/8	18.2
WNSE06-02-O	11	15.2		24.2	14	18.4	47.4	18.5	11.4	R1/4	35.4
WNSE08-01-O	8	17.8	8	25.5	10	14.4	39.8	15	13.6	R1/8	19.1
WNSE08-02-O	11	17.8		27.8	14	18.4	47.4	18.5	13.6	R1/4	36.6
WNSE08-03-O	13	17.8		29	19	22	53.7	21	13.6	R3/8	64.5
WNSE10-02-O	11	19.4	10	29.5	14	18.4	47.4	20.5	16.3	R1/4	39.6
WNSE10-03-O	13	19.4		30.3	19	22	53.7	22.7	16.3	R3/8	67.8
WNSE10-04-O	16.5	19.4		33	24	28	59.3	25.6	16.3	R1/2	98.7
WNSE12-03-O	13	22.5	12	35.8	19	22	53.7	24.1	19.7	R3/8	70.6
WNSE12-04-O	16.5	22.5		38.8	24	28	59.3	27.5	19.7	R1/2	101.6

inch

Ref.	A	C	φ D	E	H	φ K	L1 (Max)	L2	φ P	R (Male)	Mass (g)
WNSE04-M5-O	0.14	0.57	0.16	0.73	0.31	0.39	1.22	0.42	0.35	M5 x 0.03	8.1
WNSE04-01-O	0.31	0.57		0.83	0.39	0.57	1.57	0.55	0.35	R1/8	17.5
WNSE06-M5-O	0.14	0.6	0.24	0.83	0.31	0.39	1.22	0.42	0.45	M5 x 0.03	9.1
WNSE06-01-O	0.31	0.6		0.87	0.39	0.57	1.57	0.55	0.45	R1/8	18.2
WNSE06-02-O	0.43	0.6		0.95	0.55	0.72	1.87	0.73	0.45	R1/4	35.4
WNSE08-01-O	0.31	0.7	0.31	1	0.39	0.57	1.57	0.59	0.54	R1/8	19.1
WNSE08-02-O	0.43	0.7		1.09	0.55	0.72	1.87	0.73	0.54	R1/4	36.6
WNSE08-03-O	0.51	0.7		1.14	0.75	0.87	2.11	0.83	0.54	R3/8	64.5
WNSE10-02-O	0.43	0.76	0.39	1.16	0.55	0.72	1.87	0.81	0.64	R1/4	39.6
WNSE10-03-O	0.51	0.76		1.19	0.75	0.87	2.11	0.89	0.64	R3/8	67.8
WNSE10-04-O	0.65	0.76		1.3	0.94	1.1	2.33	1.01	0.64	R1/2	98.7
WNSE12-03-O	0.51	0.89	0.47	1.41	0.75	0.87	2.11	0.95	0.78	R3/8	70.6
WNSE12-04-O	0.65	0.89		1.53	0.94	1.1	2.33	1.08	0.78	R1/2	101.6

Universal type



mm

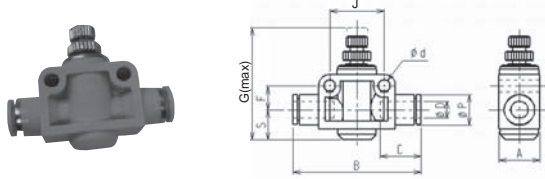
Ref.	A	C	φ D	E	H	φ K	L1 (Max)	L2	φ P	R (Male)	Mass (g)
WNSS04-M5-O	3.5	14.5	4	15.9	8	10.4	30.3	33	10.4	M5 x 0.8	8.9
WNSS04-01-O	8	14.5		18.1	10	10.4	39.8	36.5	10.4	R1/8	24.1
WNSS06-M5-O	3.5	15.9	6	15.9	8	10.4	30.3	33.6	12.4	M5 x 0.8	9.8
WNSS06-01-O	8	15.9		18.1	10	14.4	39.8	37	12.4	R1/8	24.8
WNSS06-02-O	11	15.9		20.1	14	18.4	47.4	41	12.4	R1/4	45.2
WNSS08-01-O	8	17.8	8	18.1	10	14.4	39.8	40	14.4	R1/8	41.9
WNSS08-02-O	11	17.8		20.1	14	18.4	47.4	43	14.4	R1/4	41.9
WNSS08-03-O	13	17.8		22.5	19	22	53.7	47.4	14.4	R3/8	57
WNSS10-02-O	11	19.4	10	20.1	14	18.4	47.4	45.4	17.6	R1/4	76.7
WNSS10-03-O	13	19.4		22.5	19	22	53.7	47.6	17.6	R3/8	84.6
WNSS10-04-O	16.5	19.4		24.9	24	28	59.3	51	17.6	R1/2	88
WNSS12-03-O	13	22.5	12	22.5	19	22	53.7	50	21.2	R3/8	85.6
WNSS12-04-O	16.5	22.5		24.9	24	28	59.3	54.1	21.2	R1/2	95

inch

Ref.	A	C	φ D	E	H	φ K	L1 (Max)	L2	φ P	R (Male)	Mass (g)
WNSS04-M5-O	0.14	0.57	0.16	0.63	0.31	0.41	1.19	1.3	0.41	M5 x 0.03	8.9
WNSS04-01-O	0.31	0.57		0.71	0.39	0.41	1.57	1.44	0.41	R1/8	24.1
WNSS06-M5-O	0.14	0.63	0.24	0.63	0.31	0.41	1.19	1.32	0.49	M5 x 0.03	9.8
WNSS06-01-O	0.31	0.63		0.71	0.39	0.57	1.57	1.46	0.49	R1/8	24.8
WNSS06-02-O	0.43	0.63		0.79	0.55	0.72	1.87	1.61	0.49	R1/4	45.2
WNSS08-01-O	0.31	0.7	0.31	0.71	0.39	0.57	1.57	1.57	0.57	R1/8	41.9
WNSS08-02-O	0.43	0.7		0.79	0.55	0.72	1.87	1.69	0.57	R1/4	41.9
WNSS08-03-O	0.51	0.7		0.89	0.75	0.87	2.11	1.87	0.57	R3/8	57
WNSS10-02-O	0.43	0.76	0.39	0.79	0.55	0.72	1.87	1.79	0.69	R1/4	76.7
WNSS10-03-O	0.51	0.76		0.89	0.75	0.87	2.11	1.87	0.69	R3/8	84.6
WNSS10-04-O	0.65	0.76		0.98	0.94	1.1	2.33	2.01	0.69	R1/2	88
WNSS12-03-O	0.51	0.89	0.47	0.89	0.75	0.87	2.11	1.97	0.83	R3/8	85.6
WNSS12-04-O	0.65	0.89		0.98	0.94	1.1	2.33	2.13	0.83	R1/2	95

Speed controllers

In-line type



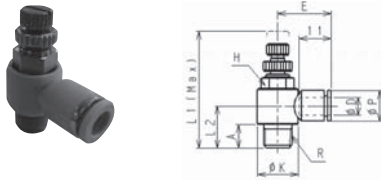
mm

Ref.	A	B	C	ϕ D	ϕ d	F	G (Max)	J	ϕ P	S	Mass (g)
WNSF04-O	11	38.4	14.5	4	3.2	6.5	28.2	14	9	6.5	11.5
WNSF06-O	15	46.8	15	6	4.3	8.5	40.8	20	11.2	11	27.6
WNSF08-O	18	53.2	17.8	8	4.3	9.5	45.8	22	13.6	12	40.4
WNSF10-O	21	60.2	19.4	10	4.3	11	52	26	16.3	12	66.4
WNSF12-O	28	73.2	22.4	12	4.3	12	55.5	32	19.7	16	110.6

inch

Ref.	A	B	C	ϕ D	ϕ d	F	G (Max)	J	ϕ P	S	Mass (g)
WNSF04-O	0.43	1.51	0.57	0.16	0.13	0.26	1.11	0.55	0.35	0.26	11.5
WNSF06-O	0.59	1.84	0.59	0.24	0.17	0.33	1.61	0.79	0.44	0.43	27.6
WNSF08-O	0.71	2.09	0.7	0.31	0.17	0.37	1.8	0.87	0.54	0.47	40.4
WNSF10-O	0.83	2.37	0.76	0.39	0.17	0.43	2.05	1.02	0.64	0.47	66.4
WNSF12-O	1.1	2.88	0.88	0.47	0.17	0.47	2.19	1.26	0.78	0.63	110.6

Mini elbow type



mm

Ref.	A	C	ϕ D	E	H	ϕ K	L1 (Max)	L2	ϕ P	R (Male)	Mass (g)
WNSE-04-M3C-O	3	10.5	4	15.7	8	10	30.5	9.9	8	M3 x 0.5	6.7
WNSE-04-M5C-O	3.5	10.5		15.7	8	10	30.5	9.9	8	M5 x 0.8	8
WNSE-04-01C-O	8	10.5		17.8	10	14	39.8	14.3	8	R1/8	17
WNSE-06-M5C-O	3.5	11.8	6	16.7	8	10	30.5	9.9	10.4	M5 x 0.8	8.6
WNSE-06-01C-O	8	11.8		18.4	10	14	39.8	14.3	10.4	R1/8	17.4

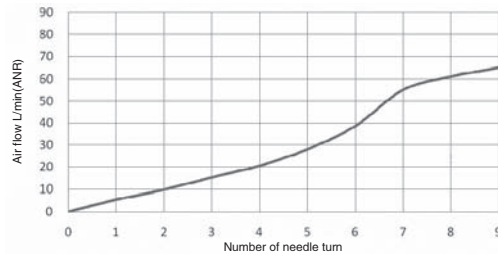
inch

Ref.	A	C	ϕ D	E	H	ϕ K	L1 (Max)	L2	ϕ P	R (Male)	Mass (g)
WNSE-04-M3C-O	0.12	0.41	0.16	0.62	0.31	0.39	1.2	0.39	0.31	M3 x 0.02	6.7
WNSE-04-M5C-O	0.14	0.41		0.62	0.31	0.39	1.2	0.39	0.31	M5 x 0.03	8
WNSE-04-01C-O	0.31	0.41		0.7	0.39	0.55	1.57	0.56	0.31	R1/8	17
WNSE-06-M5C-O	0.14	0.46	0.24	0.66	0.31	0.39	1.2	0.39	0.41	M5 x 0.03	8.6
WNSE-06-01C-O	0.31	0.46		0.72	0.39	0.55	1.57	0.56	0.41	R1/8	17.4

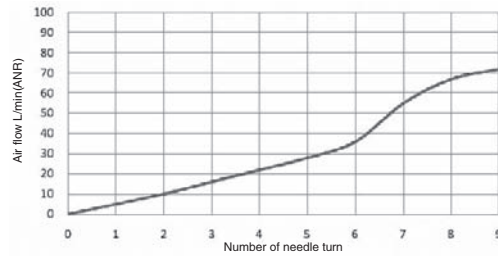
Air flow characteristics

• Air flow of flow controlling side, at 0.5MPa

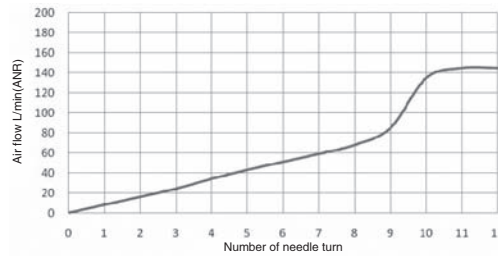
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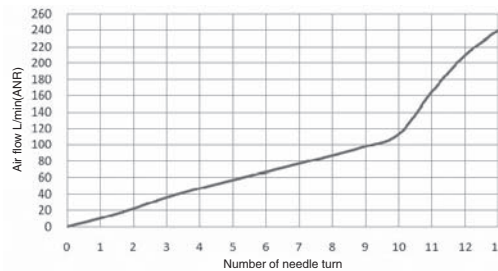
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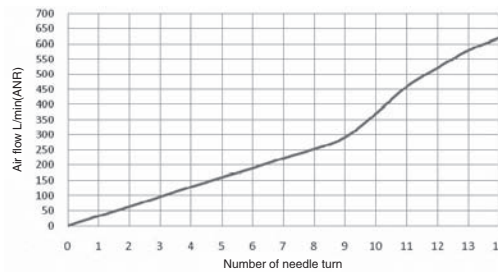
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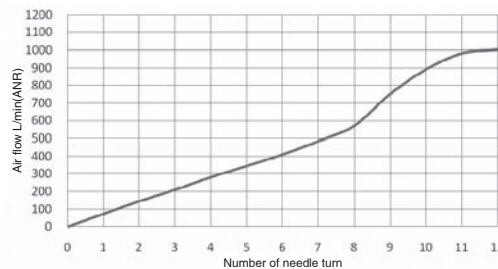
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 WNSS10-02-O



WNSE08-03-O
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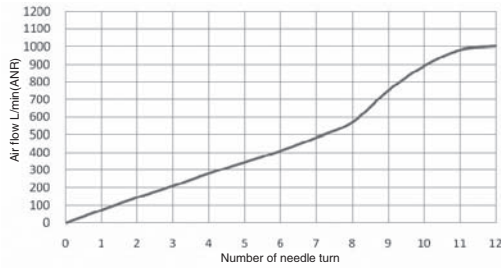


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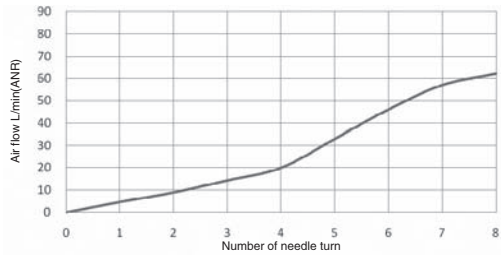


Air flow characteristics

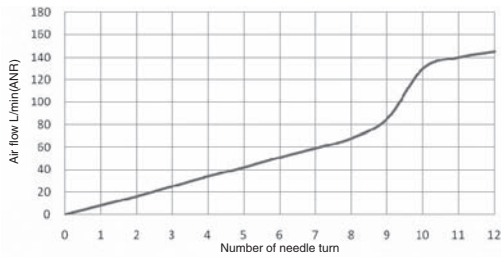
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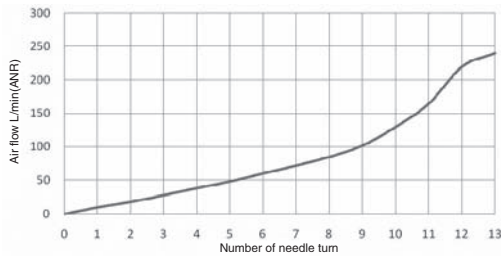
WNSF04-O



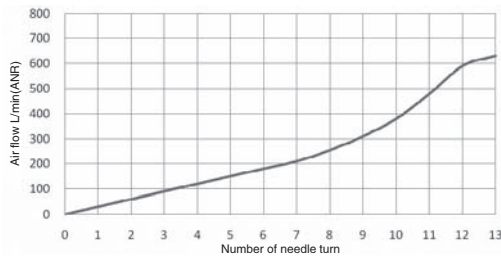
WNSF06-O



WNSF08-O



WNSF10-O



WNSF12-O

