

Speed Controller with One-touch Fitting Stainless Steel Type Push-lock type Elbow Type/Universal Type **AS-FG Series**



Model

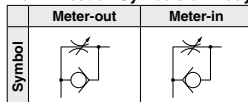
Model		Port size	Seal method	Applicable tubing O.D.														
Elbow type	Universal type			Metric size						Inch size								
AS12□1FG-M5	AS13□1FG-M5	M5 x 0.8	Gasket seal	2 Note 2	3.2	4	6	8	10	12	16	1/8"	5/32"	1/4"	5/16"	3/8"	1/2"	
AS12□1FG-U10/32	AS13□1FG-U10/32	10-32UNF		Note 3	●	●	●						●	●	●			
AS22□1FG-□01	AS23□1FG-□01	R NPT	Sealant						Note 3									
AS22□1FG-□02	AS23□1FG-□02			1/8														
AS32□1FG-□02	AS33□1FG-□02			1/4	Note 3	●	●	●					Note 3	●	●	●		
AS32□1FG-□03	AS33□1FG-□03			1/4				●	●	●	●					●	●	●
AS32□1FG-□03	AS33□1FG-□03			3/8				●	●	●	●					●	●	●
AS42□1FG-□04	AS43□1FG-□04	1/2									Note 3					●	●	
AS22□1FG-G01	AS23□1FG-G01	G	Face seal		●	●	●	●	Note 3									
AS22□1FG-G02	AS23□1FG-G02			1/8	Note 3	●	●	●	●									
AS32□1FG-G02	AS33□1FG-G02			1/4				●	●	●	●							
AS32□1FG-G03	AS33□1FG-G03			1/4				●	●	●	●							
AS32□1FG-G03	AS33□1FG-G03			3/8				●	●	●	●							
AS42□1FG-G04	AS43□1FG-G04	1/2									Note 3							

Note 1) "Without sealant" type can be selected as a standard option.

Note 2) Only polyurethane tubing is applicable for ø2.

Note 3) Universal type is not available.

Flow Direction Symbols on Body



Specifications

Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1 MPa
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)
Applicable tubing material	Nylon, Soft nylon, Polyurethane Note), FEP, PFA

Note) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.
(Refer to pages 464 and 465 for details.)

Flow Rate and Sonic Conductance

Model	AS12□1FG-M5 AS13□1FG-M5		AS22□1FG-□01 AS23□1FG-□01		AS22□1FG-□02 AS23□1FG-□02			AS32□1FG AS33□1FG		AS42□1FG AS43□1FG						
	Metric size	ø2 ø4 ø6	ø3.2 ø4 ø6	ø6 ø8 ø10	ø3.2	ø4	ø6	ø8 ø10	ø6	ø8	ø10 ø12	ø10	ø12 ø16			
Tubing O.D.	Inch size	—	ø1/8" ø1/4" ø5/32"	ø1/8" ø5/32" ø1/4" ø5/16"	ø1/8"	ø5/32"	—	ø1/4" ø5/16" ø3/8"	ø1/4"	ø5/16"	ø3/8"	ø3/8"	ø1/2"			
	C values: Sonic conductance (dm ³ /sbar)	Free flow	0.2	0.3	0.4	0.6	0.6	0.7	1.0	1.3	1.5	1.6	1.7	2.5	4.4	4.8
	Controlled flow	0.2	0.3	0.4	0.7	0.8	0.6	0.9	1.3	2.1	2.4	3.3	4.4	4.9		
b values: Critical pressure ratio	Free flow	0.3	0.4	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3			
	Controlled flow	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3			

Note 1) 10-32UNF has the same specification as M5.

Note 2) C and b values are for controlled flow with the needle fully open and free flow with the needle fully closed.

Caution

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions, pages 543 to 546 for Flow Control Equipment Precautions, and pages 573 to 575 for Specific Product Precautions.