AS-FS Series Speed Controller with Indicator



Flow Direction Symbols on Body

	Meter-out	Meter-in
Symbol		

Ordering Code

AS-FS Series Speed Controller with Indicator

AS 2 2 0 - □ F S - □ 01 - 06 S - □

- AS: Series code
- 2: Body size — 1: M5, 1/8, 1/4; 2: 1/8, 1/4, 3/8; 3: 1/8, 1/4, 3/8, 1/2
- 2: Type — 2: Elbow; 3: Universal
- 0: Control type — 0: Meter-out; 1: Meter-in
- □: Indicator window direction

	Elbow	Universal
Nil (0°)	●	—
1 (180°)	●	●
2 (90°)	●	—
3 (270°)	●	—

* Orientation of indicator direction is fixed when manufacturing, and cannot be changed by the user.

- F: With indicator
- S: Thread type — Nil: PT; G: G; N: NPT; * M5 not available.
- 01: Port size — M5: M5×0.8; 01: 1/8; 02: 1/4; 03: 3/8; 04: 1/2
- 06: Applicable tubing O.D. — 04: Φ4; 06: Φ6; 08: Φ8; 10: Φ10; 12: Φ12
- S: Seal method — Nil: Without sealant; S: With sealant; * Face seal type is used for the G thread type. Select "Nil/Without sealant". Example) AS2201FS-G01-06
- □: Flow rate — Nil: Standard; L: Large flow type; * AS 1 and AS 3 series are available.

Specifications

Working medium	Air
Proof pressure	1.5MPa
Max. working pressure	1MPa
Min. working pressure	0.1MPa
Working temperature	-5 to 60°C (No freezing)

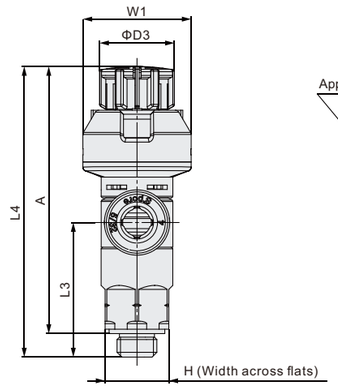
ISO9001 CE
VPC PNEUMATIC®

AS-FS Series Speed Controller with Indicator

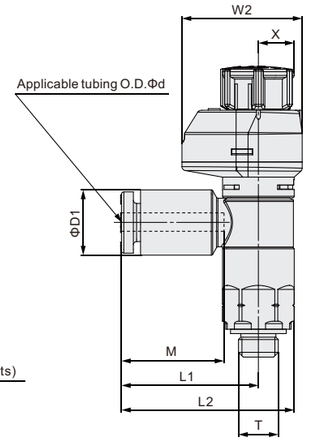
Main Dimensions Elbow type

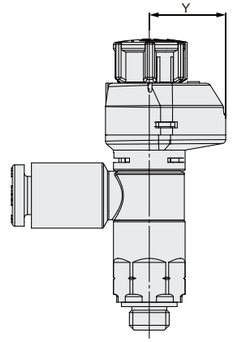
Seal method: Gasket seal
For M5, 10-32UNF

Indicator window direction: 0°



Indicator window direction: 180°





Metric Size

(mm)

Model	d	T	H*1	D1	D3	L1	L2	L3	L4*2 Unlocked	L4*2 Locked	A*3 Unlocked	A*3 Locked	M	W1	W2	X	Y	Weight (g)
AS12□1FS□-M5E-02	2	M5×0.8 10/32UNF	8 (9)	5.8	9.4	15.8	20.3	16.9	39	36.5	35	33.5	11.9	13.6	15.1	5.5	9.6	7
AS12□1FS□-U10/32E-02																		
AS12□1FS□-M5E-23	3.2			7.2		17.2	21.7						13.3					
AS12□1FS□-U10/32E-23																		
AS12□1FS□-M5E-04	4			8.2														
AS12□1FS□-U10/32E-04																		
AS12□1FS□-M5E-06	6			10.4		18.6	23.1	16.5										8
AS12□1FS□-U10/32E-06																		

*1) The value in ( ) indicates that the dimension for the width across flats is 9 mm.
*2) Reference dimensions.
*3) Reference dimensions of threads after installation.

Inch Size

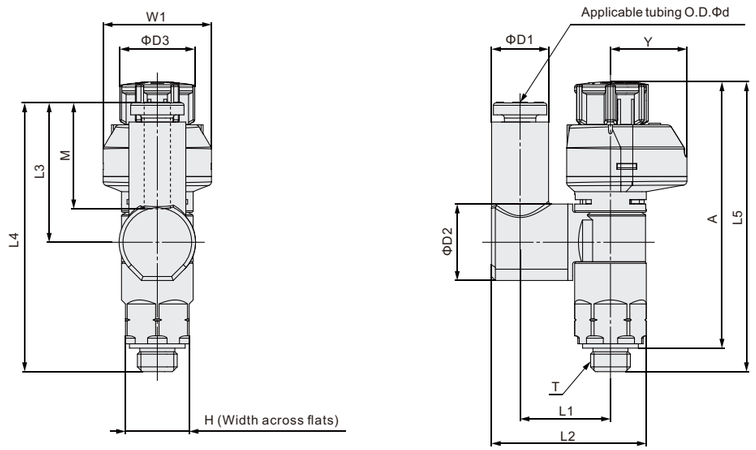
Model	d	T	H*1	D1	D3	L1	L2	L3	L4*2 Unlocked	L4*2 Locked	A*3 Unlocked	A*3 Locked	M	W1	W2	X	Y	Weight (g)
AS12□1FS□-M5E-01	1/8"	M5×0.8 10/32UNF	8	7.2	9.4	17.2	21.7	16.9	39	36.5	35	33.5	13.3	13.6	15.1	5.5	9.6	7
AS12□1FS□-U10/32E-01																		
AS12□1FS□-M5E-03	5/32"			8.2														
AS12□1FS□-U10/32E-03																		
AS12□1FS□-M5E-07	1/4"			11.2		18.6	23.1	16.5										8
AS12□1FS□-U10/32E-07																		

*1) The value in ( ) indicates that the dimension for the width across flats is 9 mm.
*2) Reference dimensions.
*3) Reference dimensions of threads after installation.

AS-FS Series Speed Controller with Indicator

Main Dimensions Universal Type

Seal method: Gasket seal
For M5, 10-32UNF



Metric Size

(mm)

Model	d	T	H*1	D1	D2	D3	L1	L2	L3	L4	L5*2		A*3		M	W1	Y	Weight (g)
											Unlocked	Locked	Unlocked	Locked				
AS13□1FS1-M5E-23	3.2	M5×0.8 10/32UNF	8 (9)	7.2	9.6	9.4	11.6	19.4	17.5	33.8	39	36.5	35	33.5	13.3	13.6	9.6	7
AS13□1FS1-U10/32-23																		
AS13□1FS1-M5E-04	4			8.2			11.5	19.8										
AS13□1FS1-U10/32-04																		
AS13□1FS1-M5E-06	6			10.4				20.9	20.4	36.6								8
AS13□1FS1-U10/32-06																		

*1) The value in ( ) indicates that the dimension for the width across flats is 9 mm.
*2) Reference dimensions.
*3) Reference dimensions of threads after installation.

Inch Size

(mm)

Model	d	T	H*1	D1	D2	D3	L1	L2	L3	L4	L5*2		A*3		M	W1	Y	Weight (g)
											Unlocked	Locked	Unlocked	Locked				
AS13□1FS1-M5E-01	1/8	M5×0.8 10/32UNF	8 (9)	7.2	9.6	9.4	11.6	19.4	17.5	33.8	39	36.5	35	33.5	13.3	13.6	9.6	7
AS13□1FS1-U10/32-01																		
AS13□1FS1-M5E-03	5/32			8.2			11.5	19.8										
AS13□1FS1-U10/32-03																		
AS13□1FS1-M5E-07	1/4			11.2				21.3	20.4	36.6								8
AS13□1FS1-U10/32-07																		

*1) The value in ( ) indicates that the dimension for the width across flats is 9 mm.
*2) Reference dimensions.
*3) Reference dimensions of threads after installation.

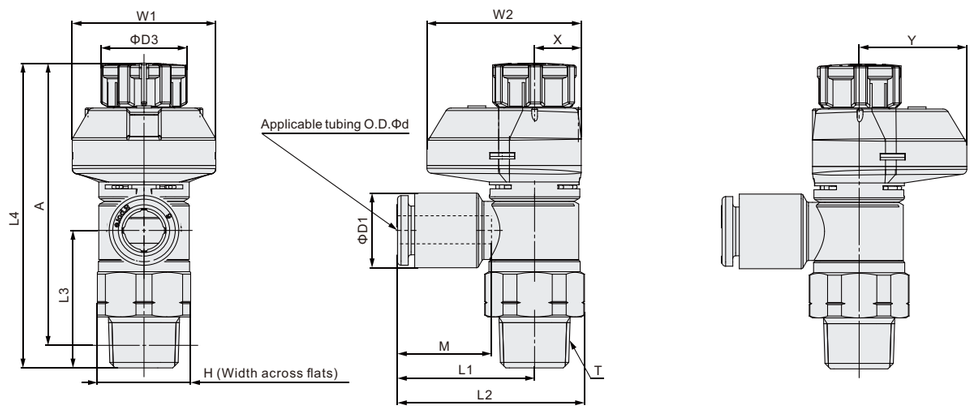
AS-FS Series Speed Controller with Indicator

Main Dimensions Elbow Type

Seal method: Sealant
For R, NPT thread

Indicator window direction: 0°

Indicator window direction: 180°



Metric Size

(mm)

Model	d	T (R,NPT)	H	D1	D3	L1	L2	L3	L4*1		A*2		M	W1	W2	X	Y	Weight (g)
									Unlocked	Locked	Unlocked	Locked						
AS22□1FS□-01-23 (S)	3.2	1/8	13 (12.7)	7.2	12	19.1	26.2	19.1	43.9	42.4	40.8	39.3	13.3	20	21.5	6.5	15	13(13)
AS22□1FS□-01-04 (S)	4			8.2														14(13)
AS22□1FS□-01-06 (S)	6			10.4														15(14)
AS22□1FS□-01-08 (S)	8			13.2		22.4	29.5						14.2					16(15)
AS22□1FS□-01-10 (S)	10			15.9		25.3	32.4						15.6					
AS22□1FS□-02-23 (S)	3.2	1/4	17 (17.5)	7.2	13	20.9	30.2 (30.3)	22.6	49.7	48.3	44.2	42.8	13.3	21.5	24	7.8	16.2	23(24)
AS22□1FS□-02-04 (S)	4			8.2														
AS22□1FS□-02-06 (S)	6			10.4		23.4	32.7(32.8)											
AS22□1FS□-02-08 (S)	8			13.2		23.9	33.2(33.3)						14.2					24(25)
AS22□1FS□-02-10 (S)	10			15.9		26.9	36.2(36.3)						15.6					25(26)
AS32□1FS□-02-06 (S)	6	1/4	19	10.4	16.6	21.8	32.1	36.4	63.1	61.7	57.9	56.5	13.3	24.5	28.5	9.3	19.2	47(48)
AS32□1FS□-02-08 (S)	8			13.2		22.7	33						14.2					
AS32□1FS□-02-10 (S)	10			15.9		26.7	37	35.7					15.6					38(39)
AS32□1FS□-02-12 (S)	12			18.5		29.7	40	34.5					17					50(51)
AS32□1FS□-03-06 (S)	6	3/8	19	10.4	16.6	21.8	32.1	28.7	55.4	54	50.2	48.8	13.3	24.5	28.5	9.3	19.2	38(39)
AS32□1FS□-03-08 (S)	8			13.2		22.7	33						14.2					
AS32□1FS□-03-10 (S)	10			15.9		26.7	37	28					15.6					39(40)
AS32□1FS□-03-12 (S)	12			18.5		29.7	40	26.8					17					41(42)
AS42□1FS□-04-10 (S)	10	1/2	24 (23.8)	15.9	18.8	27.4	40.3(40.2)	36.2	64.1	62.5	57	55.4	15.6	26	29	10	19	62(61)
AS42□1FS□-04-12 (S)	12			18.5		30.8	43.7(43.6)	35.1					17					64(63)
AS42□1FS□-04-16 (S)	16			23.8		34.8	47.7(47.6)	32.7					20.6					68(67)

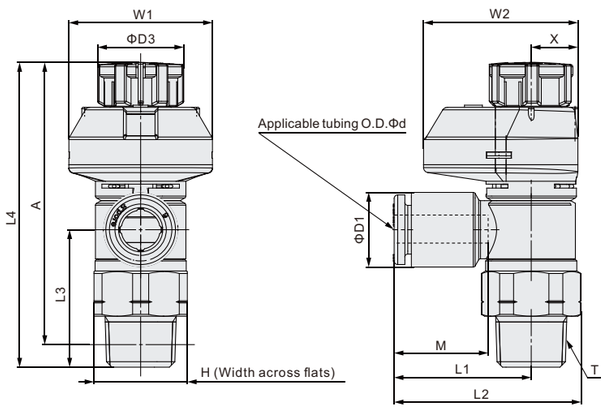
*1) Reference dimensions.
*2) Reference dimensions of threads after installation.
*3) The values in ( ) are for NPT thread.

AS-FS Series Speed Controller with Indicator

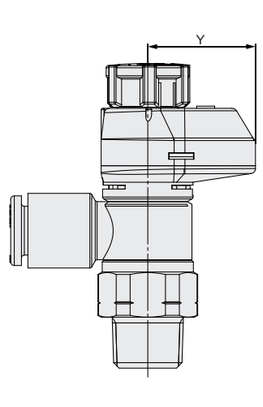
Main Dimensions Elbow Type

Seal method: Sealant
For R, NPT thread

Indicator window direction: 0°



Indicator window direction: 180°



Inch Size

(mm)

Model	d	T (R,NPT)	H	D1	D3	L1	L2	L3	L4 *1 Unlocked	L4 *1 Locked	A *2 Unlocked	A *2 Locked	M	W1	W2	X	Y	Weight (g)
AS22□1FS□-01-01 (S)	1/8"	1/8	13 (12.7)	7.2	12	19.1	26.2	19.1	43.9	42.4	40.8	39.3	13.3	20	21.5	6.5	15	13(13)
AS22□1FS□-01-03 (S)	5/32"			8.2														
AS22□1FS□-01-07 (S)	1/4"			11.2		20.8	27.9											14(13)
AS22□1FS□-01-09 (S)	5/16"			13.2		22.4	29.5						14.2					15(14)
AS22□1FS□-02-01 (S)	1/8"	1/4	17 (17.5)	7.2	13	20.9	30.2 (30.3)	22.6	49.7	48.3	44.2	42.8	13.3	21.5	24	7.8	16.2	23(24)
AS22□1FS□-02-03 (S)	5/32"			8.2														
AS22□1FS□-02-07 (S)	1/4"			11.2		23.4	32.7(32.8)											24(24)
AS22□1FS□-02-09 (S)	5/16"			13.2		23.9	33.2(33.3)						14.2					24(25)
AS22□1FS□-02-11 (S)	3/8"			15.5		26.4	35.7(35.8)						15.6					25(26)
AS32□1FS□-02-07 (S)	1/4"	1/4	19	11.2	16.6	21.8	32.1	36.4	63.1	61.7	57.9	56.5	13.3	24.5	28.5	9.3	19.2	47(48)
AS32□1FS□-02-09 (S)	5/16"			13.2		22.7	33						14.2					
AS32□1FS□-02-11 (S)	3/8"			15.5		26.7	37	35.9					15.6					48(49)
AS32□1FS□-03-07 (S)	1/4"	3/8	19	11.2	16.6	21.8	32.1	28.7	55.4	54	50.2	48.8	13.3	24.5	28.5	9.3	19.2	38(39)
AS32□1FS□-03-09 (S)	5/16"			13.2		22.7	33						14.2					
AS32□1FS□-03-11 (S)	3/8"			15.5		26.7	37	28.2					15.6					39(40)
AS42□1FS□-04-11 (S)	3/8"	1/2	24 (23.8)	15.9	18.8	27.4	40.3(40.2)	36.2	64.1	62.5	57	55.4	15.6	26	29	10	19	62(61)
AS42□1FS□-04-13 (S)	1/2"			19.3		30.9	43.8(43.7)	34.7					17					64(63)

*1) Reference dimensions.
*2) Reference dimensions of threads after installation.
*3) The values in ( ) are for NPT thread.

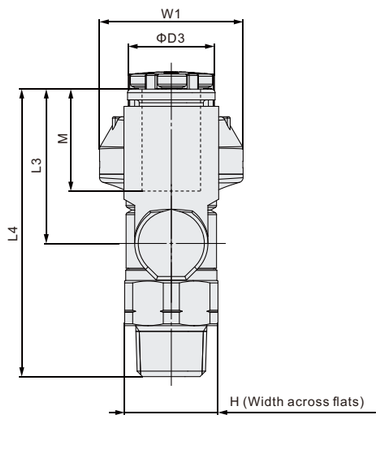
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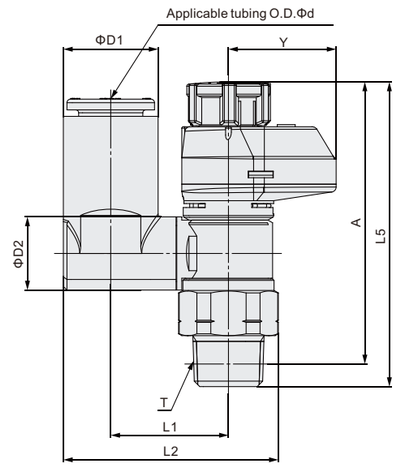
ISO9001 CE

AS-FS Series Speed Controller with Indicator

Main Dimensions Universal Type

Seal method: Sealant
For R, NPT thread





Metric Size

(mm)

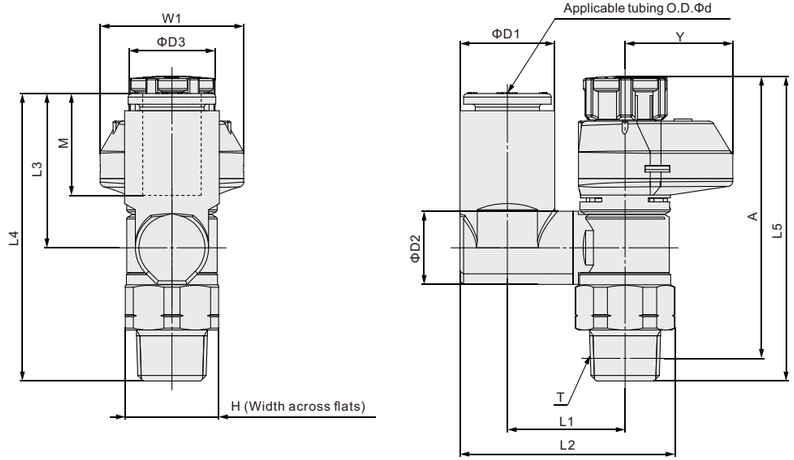
Model	d	T	H	D1	D2	D3	L1	L2	L3	L4	L5 Unlocked	L5 Locked	A Unlocked	A Locked	M	W1	Y	Weight (g)
AS23□1FS1-01-23 (S)	3.2	1/8	13 (12.7)	7.2	9.6	12	13.3	24	17.5	36	43.9	42.4	40.8	39.3	13.3	20	15	14
AS23□1FS1-01-04 (S)	4			8.2			13.9	25.1										
AS23□1FS1-01-06 (S)	6			10.4				26.2	20.4	38.8								15
AS23□1FS1-01-08 (S)	8			13.2	10.2		16.4	30.1	21.5	40					14.2			16
AS23□1FS1-02-04 (S)	4	1/4	17 (17.5)	8.2	12.9	13	16.5	29.9	17.5	40.1	49.7	48.3	44.2	42.8	13.3	21.5	16.2	24
AS23□1FS1-02-06 (S)	6			11.2			19	33.8	21.4	43.9					14.2			26
AS23□1FS1-02-08 (S)	8			13.2				34.9	23.5	46					15.6			27
AS23□1FS1-02-10 (S)	10			15.9			20.9	38.1	24.7	47.3					17			28
AS33□1FS1-02-06 (S)	6	1/4	19	11.2	12.9	16.6	20.2	36	21.4	57.8	63.1	61.7	57.9	56.5	13.3	24.5	19.2	49
AS33□1FS1-02-08 (S)	8			13.2				37.1	23.5	59.9					14.2			50
AS33□1FS1-02-10 (S)	10			15.9	17.4		23	41.2	26.1	62.5					15.6			53
AS33□1FS1-02-12 (S)	12			18.5				42.5	28.3	64.7					17			55
AS33□1FS1-03-06 (S)	6	3/8	19	10.4	12.9	16.6	20.2	36	21.4	50.1	55.4	54	50.2	48.8	13.3	24.5	19.2	41
AS33□1FS1-03-08 (S)	8			13.2				37.1	23.5	52.2					14.2			42
AS33□1FS1-03-10 (S)	10			15.9	17.4		23	41.2	26.1	54.8					15.6			45
AS33□1FS1-03-12 (S)	12			18.5				42.5	28.3	57					17			47
AS43□1FS1-04-10 (S)	10	1/2	24 (23.8)	15.9	17.4	18.8	25.6	46.4	26.1	61.2	64.1	62.5	57	55.4	15.6	26	19	69
AS43□1FS1-04-12 (S)	12			18.5	21		26.2	48.3	28.3	63.4					17			72

V

AS-FS Series Speed Controller with Indicator

Main Dimensions Universal Type

Seal method: Sealant
For R, NPT thread



Inch Size

(mm)

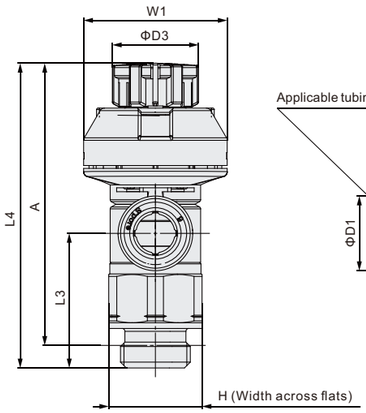
Model	d	T	H	D1	D2	D3	L1	L2	L3	L4	L5		A		M	W1	Y	Weight (g)
											Unlocked	Locked	Unlocked	Locked				
AS23□1FS1-01-01 (S)	1/8"	1/8	13 (12.7)	7.2	9.6	12	13.3	24	17.5	36	43.9	42.4	40.8	39.3	13.3	20	15	14
AS23□1FS1-01-03 (S)	5/32"			8.2			13.9	25.1										
AS23□1FS1-01-07 (S)	1/4"			11.2	10.2		16.4	29.1	20.2	38.7								15
AS23□1FS1-01-09 (S)	5/16"			13.2				30.1	21.5	40					14.2			16
AS23□1FS1-02-03 (S)	5/32"	1/4	17 (17.5)	8.2	12.9	13	16.5	29.9	17.5	40.1	49.7	48.3	44.2	42.8	13.3	21.5	16.2	24
AS23□1FS1-02-07 (S)	1/4"			11.2			19	33.8	21.4	43.9								26
AS23□1FS1-02-09 (S)	5/16"			13.2				34.9	23.5	46					14.2			27
AS23□1FS1-02-11 (S)	3/8"			15.9			20.9	38.1	24.7	47.3					15.6			28
AS33□1FS1-02-07 (S)	1/4"	3/8	19	11.2	12.9	16.6	20.2	36	21.4	57.8	63.1	61.7	57.9	56.5	13.3	24.5	19.2	49
AS33□1FS1-02-09 (S)	5/16"			13.2				37.1	23.5	59.9					14.2			50
AS33□1FS1-02-11 (S)	3/8"			15.9	17.4		23	41.2	26.1	62.5					15.6			53
AS33□1FS1-03-07 (S)	1/4"	3/8	19	11.2	12.9	16.6	20.2	36	21.4	50.1	55.4	54	50.2	48.8	13.3	24.5	19.2	41
AS33□1FS1-03-09 (S)	5/16"			13.2				37.1	23.5	52.2					14.2			42
AS33□1FS1-03-11 (S)	3/8"			15.9	17.4		23	41.2	26.1	54.8					15.6			45
AS43□1FS1-04-11 (S)	3/8"	1/2	24 (23.8)	15.9	17.4	18.8	25.6	46.4	26.1	61.2	64.1	62.5	57	55.4	15.6	26	19	69
AS43□1FS1-04-13 (S)	1/2"			18.5	21		26.2	48.3	28.3	63.4					17			72

AS-FS Series Speed Controller with Indicator

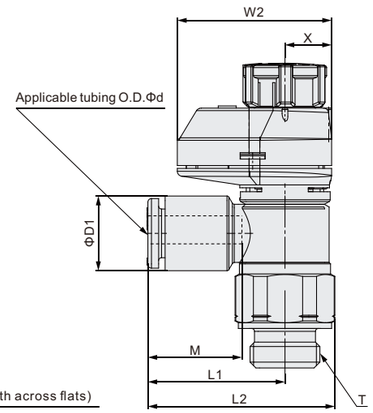
Main Dimensions Elbow Type

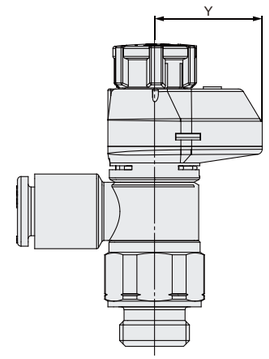
Seal method: Face seal
For G thread

Indicator window direction: 0°



Indicator window direction: 180°





Metric Size

(mm)

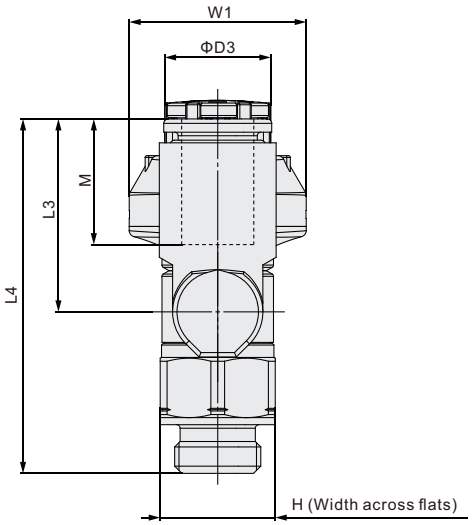
Model	d	T	H	D1	D3	L1	L2	L3	L4*1		A*2		M	W1	W2	X	Y	Weight (g)
									Unlocked	Locked	Unlocked	Locked						
AS22□1FS□-G01-23	3.2	1/8	13	7.2	12	19.1	26.2	18.8	43.8	42.4	38.3	36.9	13.3	20	21.5	6.5	15	14
AS22□1FS□-G01-04	4			8.2														
AS22□1FS□-G01-06	6			10.4														
AS22□1FS□-G01-08	8			13.2		22.4	29.5						14.2					15
AS22□1FS□-G01-10	10			15.9		25.3	32.4						15.6					16
AS22□1FS□-G02-23	3.2	1/4	17	7.2	13	20.9	30.2	22.6	49.7	48.3	43.2	41.8	13.3	21.5	24	7.8	16.2	26
AS22□1FS□-G02-04	4			8.2														
AS22□1FS□-G02-06	6			10.4		23.4	32.7											
AS22□1FS□-G02-08	8			13.2		23.9	33.2						14.2					27
AS22□1FS□-G02-10	10			15.9		26.9	36.2						15.6					28
AS32□1FS□-G02-06	6	1/4	21	10.4	16.6	21.8	33	36.4	63.1	61.7	54.6	53.2	13.3	24.5	28.5	9.3	19.2	55
AS32□1FS□-G02-08	8			13.2		22.7	33.9						14.2					
AS32□1FS□-G02-10	10			15.9		26.7	37.9	35.7					15.6					57
AS32□1FS□-G02-12	12			18.5		29.7	40.9	34.5					17					59
AS32□1FS□-G03-06	6	3/8	21	10.4	16.6	21.8	33	28.7	55.4	54	47.9	46.5	13.3	24.5	28.5	9.3	19.2	45
AS32□1FS□-G03-08	8			13.2		22.7	33.9						14.2					46
AS32□1FS□-G03-10	10			15.9		26.7	37.9	28					15.6					47
AS32□1FS□-G03-12	12			18.5		29.7	40.9	26.8					17					49
AS42□1FS□-G04-10	10	1/2	27	15.9	18.8	27.4	41.8	36.2	64.1	62.5	55.1	53.5	15.6	26	29	10	19	80
AS42□1FS□-G04-12	12			18.5		30.8	45.2	35.1					17					82
AS42□1FS□-G04-16	16			23.8		34.8	49.2	32.7					20.6					86

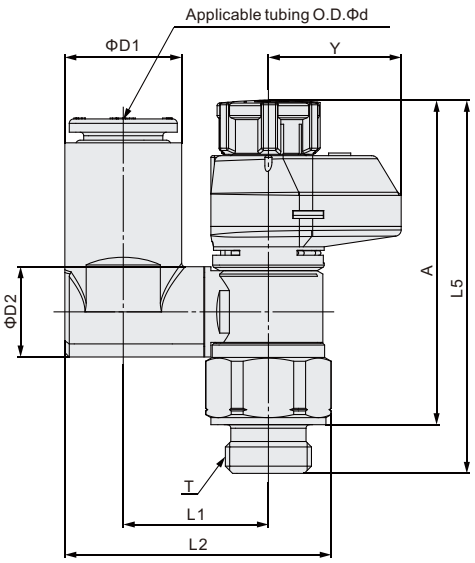
*1) Reference dimensions.
*2) Reference dimensions of threads after installation.

AS-FS Series Speed Controller with Indicator

Main Dimensions Universal Type

Seal method: Face seal
For G thread





Metric Size

(mm)

Model	d	T	H	D1	D2	D3	L1	L2	L3	L4	L5		A		M	W1	Y	Weight (g)
											Unlocked	Locked	Unlocked	Locked				
AS23□1FS1-G01-23	3.2	1/8	13	7.2	9.6	12	13.2	24	17.5	35.7	43.8	42.4	38.3	36.9	13.3	20	15	14
AS23□1FS1-G01-04	4			8.2			13.9	25.1										15
AS23□1FS1-G01-06	6			10.4				26.2	20.4	38.5								
AS23□1FS1-G01-08	8			13.2	10.2		16.4	30.1	21.5	39.7					14.2			16
AS23□1FS1-G02-04	4	1/4	17	8.2	12.9	13	16.5	29.9	17.5	40.1	49.7	48.3	43.2	41.8	13.3	21.5	16.2	26
AS23□1FS1-G02-06	6			10.4			19	33.8	21.4	43.9								28
AS23□1FS1-G02-08	8			13.2				34.9	23.5	46					14.2			29
AS23□1FS1-G02-10	10			15.9			20.9	38.1	24.7	47.3					15.6			32
AS33□1FS1-G02-06	6	1/4	21	10.4	12.9	16.6	20.2	36.1	21.4	57.8	63.1	61.7	54.6	53.2	13.3	24.5	19.2	55
AS33□1FS1-G02-08	8			13.2				38	23.5	59.9					14.2			56
AS33□1FS1-G02-10	10			15.9	17.4		23	42.2	26.1	58					15.6			59
AS33□1FS1-G02-12	12			18.5				43.5	28.3	59.9					17			61
AS33□1FS1-G03-06	6	3/8	21	10.4	12.9	16.6	20.2	36.6	21.4	50.1	55.4	54	47.9	46.5	13.3	24.5	19.2	45
AS33□1FS1-G03-08	8			13.2				38	23.5	52.2					14.2			46
AS33□1FS1-G03-10	10			15.9	17.4		23	42.2	28.1	50.3					15.6			47
AS33□1FS1-G03-12	12			18.5				43.5	28.3	52.2					17			49
AS43□1FS1-G04-10	10	1/2	27	15.9	17.4	18.8	25.6	47.9	26.1	61.2	64.1	62.5	55.1	53.5	15.6	26	19	80
AS43□1FS1-G04-12	12			18.5	21		26.2	49.8	28.3	63.4					17			82

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