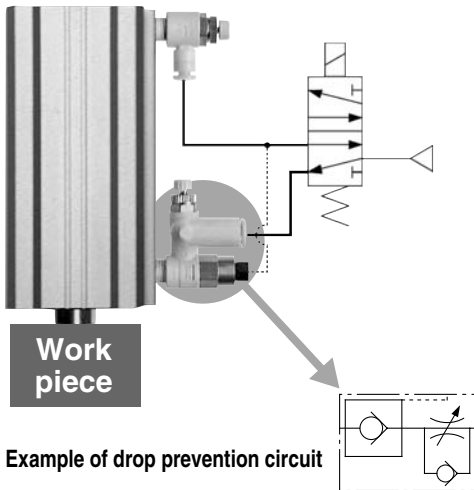


Speed Controller with Pilot Check Valve with One-touch Fitting *Series ASP*

Pilot check valve and speed controller are combined.

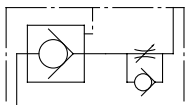
Realizes momentary intermediate stoppage of a cylinder and able to adjust speed control of it.



Tubing mount direction is 360° free.
Electroless nickel plated is provided as standard.



JIS Symbol



Made to Order



Lubricant: Vaseline

X12

Model

Model	Port size	Pilot port	Applicable tubing O.D.							
			Metric size				Inch size			
			ø6	ø8	ø10	ø12	ø1/4"	ø5/16"	ø3/8"	ø1/2"
ASP330F-01	R 1/8	M5 x 0.8	●	●						
ASP430F-02	R 1/4	Rc 1/8	●	●						
ASP530F-03	R 3/8	Rc 1/8		●	●					
ASP630F-04	R 1/2	Rc 1/4			●	●				
ASP430F-F02	R 1/4	G 1/8	●	●						
ASP530F-F03	R 3/8	G 1/8		●	●					
ASP630F-F04	R 1/2	G 1/4			●	●				
ASP330F-N01	NPT 1/8	10-32 UNF					●	●		
ASP430F-N02	NPT 1/4	NPT 1/8					●	●		
ASP530F-N03	NPT 3/8	NPT 1/8						●	●	
ASP630F-N04	NPT 1/2	NPT 1/4							●	●

Note) Brass parts are all electroless nickel plated.

Specifications

Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1 MPa
Min. operating pressure	0.1 MPa
Pilot check valve operating pressure	More than 50% the operating pressure (Over 0.1 MPa)
Ambient and fluid temperature	-5 to 60°C (No freezing)
Number of needle rotations	10 turns
Applicable tubing material	Nylon, Soft nylon, Polyurethane

Note) Use caution regarding the max. operating pressure when soft nylon or polyurethane tubing is used.
(Refer to pages 371 and 372 for details.)

Flow Rate and Effective Area

Model		ASP330F	ASP430F		ASP530F		ASP630F	
Tubing O.D.	Metric size	ø6, ø8	ø6	ø8	ø8	ø10	ø10	ø12
	Inch size	ø1/4" ø5/16"	—	ø1/4" ø5/16"	ø5/16"	ø3/8"	—	ø3/8" ø1/2"
Controlled flow (Free flow)	Flow rate (ℓ/min(ANR))	180	330	350	600	750	1100	1190
	Effective area (mm ²)	2.9	5.2	5.4	9.3	11.6	17	18.4

Note) Flow rate values are measured at 0.5 MPa and 20°C.

AS

ASP

ASN

AQ

ASV

AK

VCHC

ASS

ASR
ASQ

KE

TMH

How to Order

ASP

3

30F

01

06

S

Pilot check valve

Body size

Universal

With One-touch fitting

Made to Order

With seal

Applicable tubing O.D.

Port size

3	1/8 standard
4	1/4 standard
5	3/8 standard
6	1/2 standard

Metric size	Inch size
06	ø6
08	ø8
10	ø10
12	ø12

Metric size	Inch size
07	ø1/4"
09	ø5/16"
11	ø3/8"
13	ø1/2"

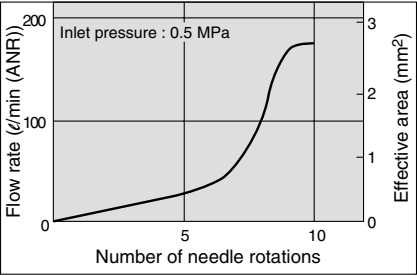
Symbol	Cylinder side	Pilot port
01	R 1/8	M5 x 0.8
02	R 1/4	Rc 1/8
03	R 3/8	Rc 1/8
04	R 1/2	Rc 1/4
F02	R 1/4	G 1/8
F03	R 3/8	G 1/8
F04	R 1/2	G 1/4
N01	NPT 1/8	10-32 UNF
N02	NPT 1/4	NPT 1/8
N03	NPT 3/8	NPT 1/8
N04	NPT 1/2	NPT 1/4

Ex.) ASP330F-01-06S-X12

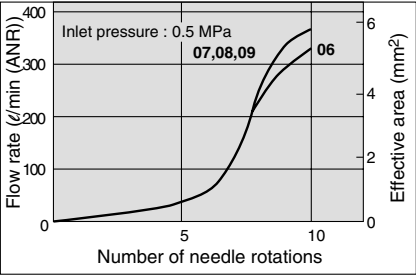
Lubricant: Vaseline

Needle Valve/Flow Characteristics

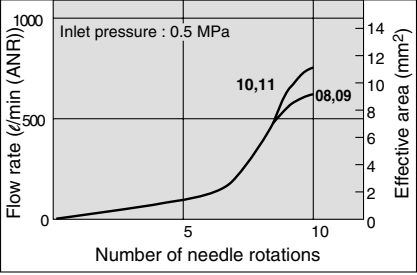
ASP330F



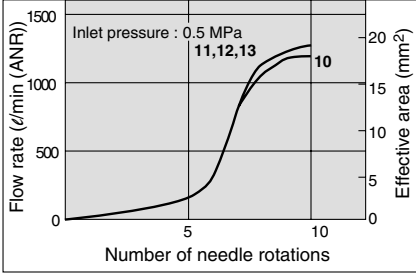
ASP430F



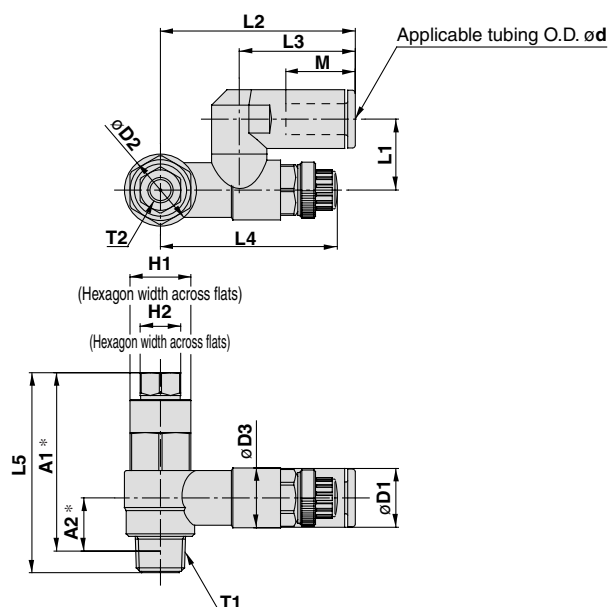
ASP530F



ASP630F



Dimensions

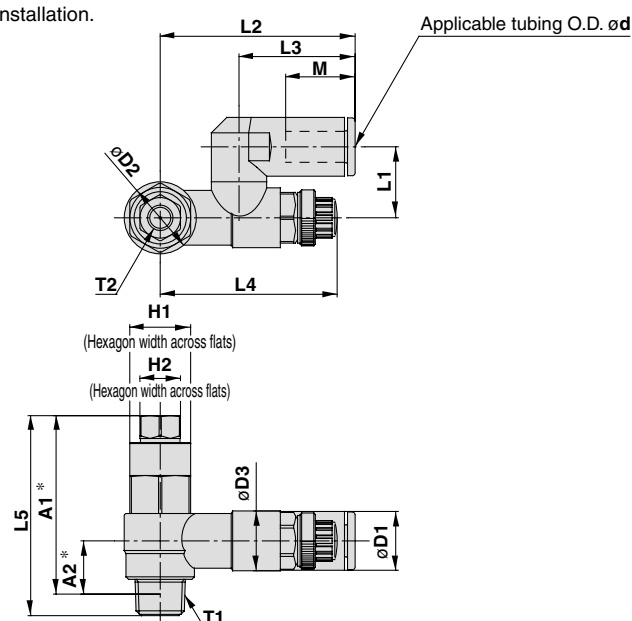


Metric Size

Model	d	T1	T2	H1	H2	D1	D2	D3	L1	L2	L3	L4 ⁽¹⁾		L5	A1 ⁽²⁾	A2 ⁽²⁾	M	Mass (g)
												Max.	Min.					
ASP330F-01-06S	6	R 1/8	M5 x 0.8	12	8	11.6	14.2	11.8	14	38.4	22.9	39.6	34.6	38.6	35.2	10.5	13.7	32
ASP330F-01-08S	8					15.2			15.8			38.9	33.9				18.7	35
ASP430F-02-06S	6	R 1/4	1/8	17	12	12.8	18.5	15	18	43.4	25.2	41.7	36.7	48.2	42.4	10.9	16.8	65
ASP430F-02-08S	8					15.2			19.7			46.4	28.2				18.7	68
ASP530F-03-08S	8	R 3/8	1/8	19	12	15.2	23	19.8	20.3	51.3	28.2	46.9	41.9	55.1	50	14.4	18.7	107
ASP530F-03-10S	10					18.5			23.1			54.1	32.6				20.8	110
ASP630F-04-10S	10	R 1/2	1/4	24	17	18.5	28.6	26.5	25.9	64.2	32.6	64.8	57.3	69.4	61.8	18.3	20.8	212
ASP630F-04-12S	12					20.9			66			34.4	64.8				21.8	215

Note 1) Reference dimensions

Note 2) Reference dimensions of R thread after installation.



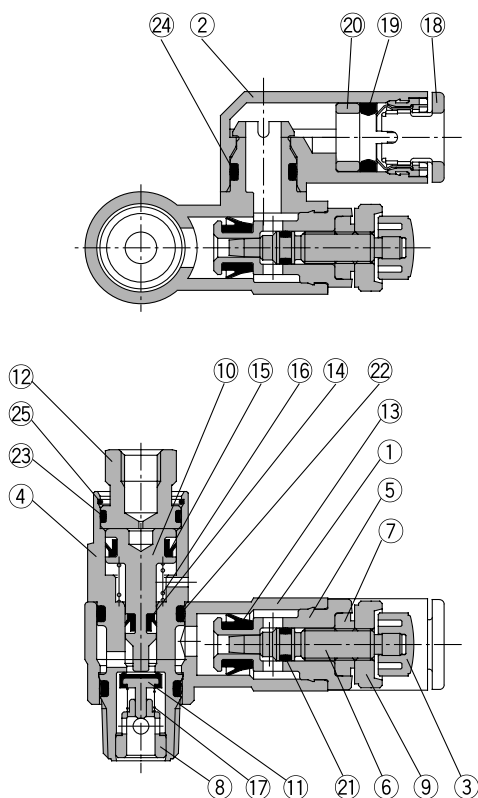
Inch Size

Model	d	T1	T2	H1	H2	D1	D2	D3	L1	L2	L3	L4 ⁽¹⁾		L5	A1 ⁽²⁾	A2 ⁽²⁾	M	Mass (g)
												Max.	Min.					
ASP330F-N01-07S	1/4"	NPT 1/8	10-32 UNF	1/2"	8	13.2	14.2	11.8	15.8	42.2	25.6	38.9	33.9	38.6	35.1	10.5	17	35
ASP330F-N01-09S	5/16"					15.2						44.7	28.2				18.7	
ASP430F-N02-07S	1/4"	NPT 1/4	NPT 1/8	11/16"	1/2"	13.2	18.5	15	18	43.9	25.6	41.7	36.7	48.2	42.6	10.9	17	68
ASP430F-N02-09S	5/16"					15.2						46.4	28.2				18.7	
ASP530F-N03-09S	5/16"	NPT 3/8	NPT 1/8	19	1/2"	15.2	23	19.8	20.3	51.3	28.2	46.9	41.9	55.1	50.3	14.4	18.7	107
ASP530F-N03-11S	3/8"					18.5			23.1			54.1	32.6				20.8	116
ASP630F-N04-11S	3/8"	NPT 1/2	NPT 1/4	15/16"	11/16"	18.5	28.6	26.5	25.9	64.2	32.6	64.8	57.3	69.4	61.8	18.3	20.8	220
ASP630F-N04-13S	1/2"					21.7			26.5			66.3	34.7				21.8	230

Note 1) Reference dimensions

Note 2) Reference dimensions of NPT thread after installation.

Construction



Component Parts

No.	Description	Material	Note
1	Body A	PBT	
2	Elbow body	PBT	
3	Handle	PBT	
4	Pilot body	Brass	Electroless nickel plated
5	Body B	Brass	Electroless nickel plated
6	Needle	Brass	Electroless nickel plated
7	Needle guide	Brass	Electroless nickel plated
8	Guide	Brass	Electroless nickel plated
9	Lock nut	Brass	Electroless nickel plated
10	Piston	Brass	Electroless nickel plated
11	Valve	Stainless steel, NBR	
12	Cover	Brass	Black zinc chromated
13	U seal	HNBR	

Component Parts

No.	Description	Material	Note
14	DY seal	NBR	
15	DY seal	NBR	
16	Spring	Stainless steel	
17	Spring	Stainless steel	
18	Cassette	—	
19	Seal	NBR	
20	Spacer	—	
21	O-ring	NBR	
22	O-ring	NBR	
23	O-ring	NBR	
24	O-ring	NBR	
25	Ring	Stainless steel	