

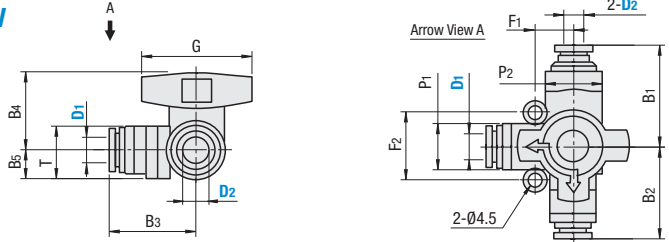
Change Valves / Check Valves

Change Valves



RoHS10

BVHVBV



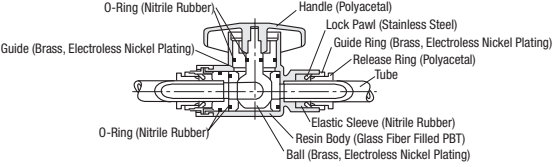
Material: Resin Body: Glass Fiber Filled PBT Polybutylene Terephthalate Ball / Guide Ring: Brass (Electroless Nickel Plating) O-Ring: Nitrile Rubber

Part Number		Tube Outer Diameter (mm) D ₁	Tube Outer Diameter (mm) D ₂	B ₁	B ₂	B ₃	B ₄	B ₅	T	F ₁	F ₂	P ₁	P ₂	G	Effective Sectional Area (mm ²)	Mass (g)
BVHVBV	6	6	6	26.9	28.8	27	23.8	8.9	16.2	12	20	14.5	17.8	34.5	9	50
	8	8	8	26.9	28.8	26.9	23.8	8.9	16.2	12	20	14.5	17.8	34.5	11	53
	10	10	10	28.5	28.7	—	23.8	8.9	22.4	15	25	21	23.8	44	17	50
	12	12	12	36.1	36.5	34.8	28	11.9	22.4	15	25	21	23.8	44	24	122
				36.6	36.7	35	28	11.9	22.4	15	25	21	23.8	44	24.5	125
															34.5	117

Features

- Changes the direction of air passage by 90°.
- Resin body is compact and lightweight.
- Easy to handle for changing air passage.

Structure Diagram



Part Number Example: BVHVB8-6

Specifications

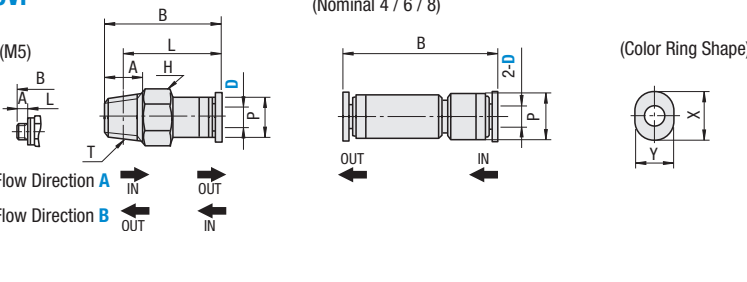
Applicable Fluid	Air
Operating Pressure Range	0–0.7 MPa
Operating Vacuum Level	~100 kPa
Operating Temperature Range	0–60°C

Check Valves



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BVCVP



Material: Resin Body: Glass Fiber Filled PBT Polybutylene Terephthalate Ball / Guide Ring: Brass (Electroless Nickel Plating) O-Ring: Nitrile Rubber

Features

- Capable of maintaining OUT pressure unchanged to prevent a back flow of air.
- Suitable for holding vacuum and for low-pressure plumbing.
- Lightweight due to resin material.

Specifications

Applicable Fluid	Air
Operating Pressure Range	0–0.9 MPa
Operating Vacuum Level	~100 kPa
Operating Temperature Range	0–60°C
Min. Operating Pressure	0.01 MPa

Part Number Example

Part Number: BVCVP4, Nominal: M5, Flow Direction: B

Part Number		Nominal	Flow Direction	Thread Size T	A	B	L	P	H (Wrench Flats)	X	Y	Effective Sectional Area (mm ²)	Mass (g)
BVCVP	4	M5	A	M5 x 0.8	3	24.2	21.2	9	8	9.8	7.8	2.6	4.3
		1	B	R1/8	8	23.9	19.9	9	10			2.7	7.7
		4	—	—	—	31.5	—	9	—			2.9	3.7
		1	A	R1/8	8	30.5	26.5	11	10			7.2	9.0
		2	B	R1/4	11	27.8	21.8		14			7.3	16.1
		6	—	—	—	34	—		11			—	7.5
	6	1	A	R1/8	8	35.5	31.5	14	14	7.3	19.3		
		2	B	R1/4	11	39.5	33.5		—	14.5	21.7		
		8	—	—	—	47.3	—		15	—	15.5	13.0	

Part Number Example: BVCVP4, Nominal: M5, Flow Direction: B

Flow Rate Controller

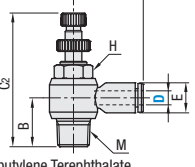
Meter-Out/In

Flow Rate Controller (Meter-Out/In) – Standard



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Meter Out SPSNL, SPJNLS



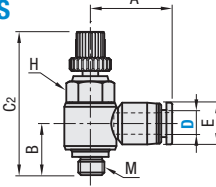
Material: Polybutylene Terephthalate Thread: Brass (Nickel Plating) (For SPJNLS, 304 Stainless Steel)

Flow Rate Controller – Miniature



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Meter Out MNSPS



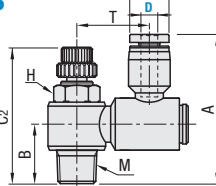
Material: Polybutylene Terephthalate Thread: Brass (Nickel Plating)

Flow Rate Controller – Straight



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Meter Out SPSNS



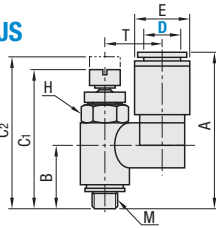
Material: Polybutylene Terephthalate Thread: Brass (Nickel Plating)

Flow Rate Controller – Miniature Straight



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Meter Out MNSPJS



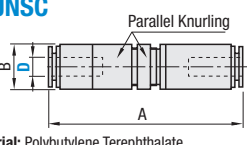
Material: Polybutylene Terephthalate Thread: Brass (Nickel Plating)

Flow Rate Controller – In-Line



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Parallel Knurling



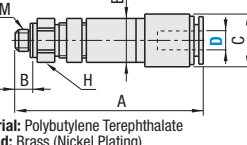
Material: Polybutylene Terephthalate Thread: Brass (Nickel Plating)

Flow Rate Controller – Miniature In-Line



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SPJNSK



Material: Polybutylene Terephthalate Thread: Brass (Nickel Plating)

Part Number Example: SPSNL4, MNSPJS6, M5, W

Part Number		Nom.	Color	A	B	C ₂	E	Wrench Flats H	Thread Size M	Mass (g)
Type	D									
SPSNL SPJNLS SPSNN	4	M5	Black	19.1(20.8)	10(12.4)	29.45(30.2)	9(10)	8	M5 x 0.8	9
		1		20.9(23.1)	14.65(16.2)	40.05(38.4)	9(10)	10(13)	R1/8	21
	6	M5		20.95(22.3)	11.2(12.2)	29.45(30.2)	11.2(12.5)	8	M5 x 0.8	10
		1		21.95(24.1)	14.65(15.7)	40.05(38.4)	11.2(12.5)	10(13)	R1/8	22
	8	2		23.95(25.8)	18.2(20.0)	48(45.7)	11.2(12.5)	14(16)	R1/4	38(40)
		1		25.1(25.3)	15.65(15.4)	40.05(38.4)	13.6(14.5)	10(13)	R1/8	23
	10	2		27.6(27.2)	19.3(19.0)	48(45.7)	13.6(14.5)	14(16)	R1/4	41
		3		28.6(29.5)	21.4(21.3)	54.2(52.4)	13.6(14.5)	19	R3/8	71(65)
	12	2		29.6(29.9)	20.8(19.0)	48(45.7)	16.3(17.5)	14(16)	R1/4	46(44)
		3		30(31.7)	23(21.8)	54.2(52.4)	16.3(17.5)	19	R3/8	74(68)
	12	4		32.9(33.9)	26.5(25.2)	59.8(58.8)	16.3(17.5)	24	R1/2	106(112)
		3		35.9(32.0)	24.7(21.7)	54.2(52.4)	19.7(20.0)	19	R3/8	77(69)
12	4	38.9(35.2)	28.2(25.7)	59.8(58.8)	19.7(20.0)	24	R1/2	109(113)		

Ⓜ Dimensions in () are for SPJNLS. *Color is applicable to SPJNLS only.
Ⓜ The picture and drawing indicate SPSNL / SPSNN. For SPJNLS, refer to the CAD data.
Ⓜ For SPSNN (Meter-In), the ring is red.

Part Number		Nom.	A	B	C ₂	E	Wrench Flats H	Thread Size M	Mass (g)	Max. Tightening Torque (Kg-cm)
Type	D									
MNSPS	4	M3	15.7	9.9	30.5	8.0	8	M3 x 0.5	8	3
		M5	15.7	9.9	30.5	8.0	8	M5 x 0.8	8	12
	6	M5	16.7	9.9	30.5	10.4	8	M5 x 0.8	10.4	12

Part Number		Nom.	A	B	C ₂	E	Wrench Flats H	T	Thread Size M	Mass (g)	Control Type
Type	D										
SPSNS	4	1	41.4	14.85	34.1	9.8	10	18.1	R1/8	34.1	Meter-Out
	6	M5	35.2	11.4	29.12	11.9	8	15.9	M5 x 0.8	29.2	
		1	38.65	14.85	34.05	11.9	10	18.1	R1/8	34.1	
		2	42.2	18.4	42.4	11.9	14	20.1	R1/4	42.4	
	8	1	40.15	14.85	33.87	13.9	10	18.1	R1/8	33.9	
		2	49.2	18.4	42.32	13.9	14	20.18	R1/4	42.4	
		3	45.9	20.6	47.6	13.9	19	22.5	R3/8	47.7	
	10	2	46.4	18.4	42.32	16.9	14	20.1	R1/4	42.4	
		3	48.6	20.6	47.6	16.9	19	22.5	R3/8	47.7	

Ⓜ For SPSNS, the tube connection part will not move.

Part Number		Nom.	Color	A	B	C ₁	C ₂	E	Wrench Flats H	T	Thread Size M	Mass (g)	Control Type
Type	D												
MNSPJS	3.2	M5	White	28	12.4	27.2	30.2	7.8	8	11.2	M5x0.8	13.2	Meter-Out
	4	M3	Black	28.3	11.4	25.1	27.6	7.9	7	9.3	M3x0.5	7.7	
		M5	White	29	12.4	27.2	30.2	8.8	8	11.2	M5x0.8	14	
		6	M5	White	30.6	12.4	27.2	30.2	10.8	8	11.2	M5x0.8	

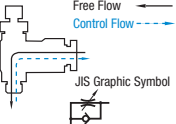
Part Number	Type	D	Body Color	A	B	Mass (g)
SPJNSC	4	B (Black)	48.8	52.3	10	13.9
	6	W (White)	52	57	12	18.8
	8	—	63	68	15	31

Part Number	Type	D	Body Color	A	B	C	E	Wrench Flats H	Thread Size M	Mass (g)
SPJNSK	4	B (Black)	39.8	43.3	4	10	10	9	M5 x 0.8	12.5
	6	W (White)	42.8	46.3	4	12	10	9	M5 x 0.8	13.4

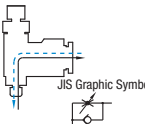
Specifications

Applicable Fluid	Air
Operating Temperature Range	0–60°C
Operating Pressure Range	0.05–0.7 MPa

Meter Out



Meter In



In Line

