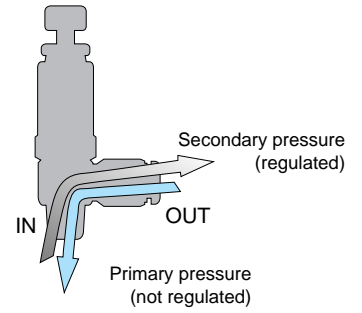


# Quick Fitting Type Reducing Valve Regulator

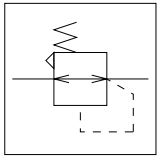
## Features

- When the primary pressure is introduced from the thread side, a reduced pressure comes out from the joint side.
- The compact design with a built-in quick-fitting joint makes flexible layout possible.
- The regulator comes with a relief mechanism that facilitates adjustment of devices.
- The compact regulator with a pressure gauge is best suited for use with a manifold type solenoid valve.

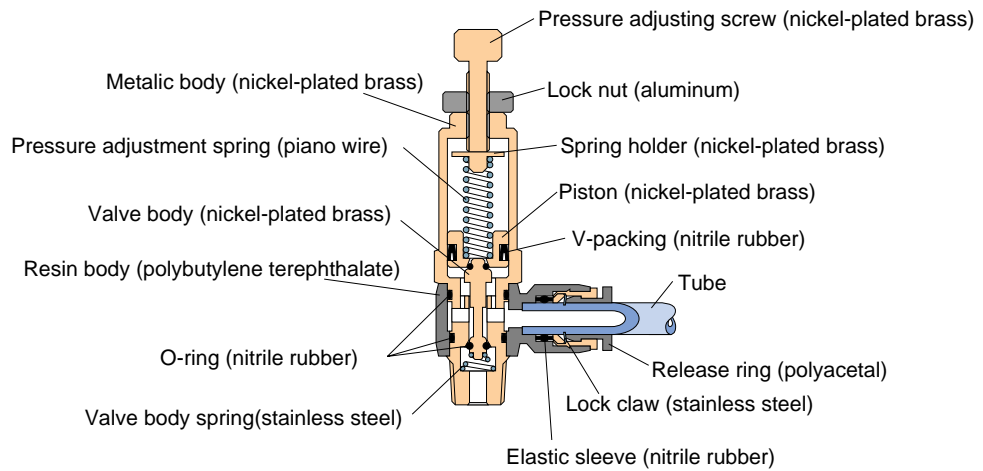
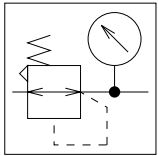


## Construction

Graphical representation of regulator



Graphical representation of regulator with gauge



## Specification

Fluid admitted	Air	
Service pressure range	0~150psi	0 ~ 0.9MPa
Pressure setting range	14.2~113.8psi	0.1 ~ 0.8MPa
Pressure indication range	0~113.8psi	0 ~ 0.8MPa
Accuracy (gauge)	±5%(Full span)	
Service temperature range	32~140°F	0 ~ 60°C

## Model Designation (Example)

**RVC 6 = 01**

(1) Type      (2) Tube dia      (3) Tube, Thread size      (4) Hexagon flat-to-flat specification

(1) Type

(2) Tube dia

Tube dia	mm Size		
Code	4	6	8
Size (mm)	φ4	φ6	φ8

Tube dia	in. Size			
Code	5/32	3/16	1/4	5/16
Size (mm)	φ5/32	φ3/16	φ1/4	φ5/16

(3) Tube, Thread size

■ Thread size

Tube dia	Metric thread	Taper pipe thread	
Code	M5	01	02
Size	M5×0.8	R1/8	R1/4

Tube dia	Unified fine thread	American standard Taper pipe thread	
Code	U10	N1	N2
Size	10-32UNF	NPT1/8	NPT1/4

■ Tube dia

Thread size	mm Size		
Code	4	6	8
Size (mm)	φ4	φ6	φ8

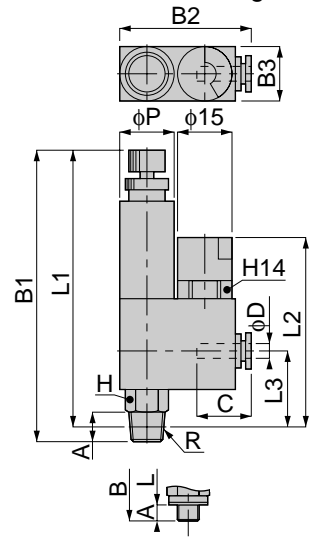
(4) Hexagon flat-to-flat specification

U: Hexagon flat-to-flat inch spec. (NPT)  
 No code: Hexagon flat-to-flat mm spec.



# RVCM

Elbow Mounted Gauge



Metric thread type

unit:mm

Model	Tube dia. φD	R	A	B1		B2	B3	L1		L2	L3	φP	C	H	Mass (g)
				max	min			max	min						
RVCM 4-M5	4	M5×0.8	3	57.5	53.5	27.5	15	54.5	50.5	42.5	12.5	11	11	8	27.5
RVCM 4-01		R1/8	8	81.5	77.5	36		77.5	73.5	51.5	18.5	15	15	12	54.5
RVCM 6-M5	6	M5×0.8	3	57.5	53.5	28	15	54.5	50.5	42.5	12.5	11	11.5	8	27.5
RVCM 6-01		R1/8	8	81.5	77.5	36.5		77.5	73.5	51.5	18.5	15	17	12	54.5
RVCM 6-02		R1/4	11	89.5	85.5	39.5		19	83.5	79.5	57	22.5	19	16	83.5
RVCM 8-01		R1/8	8	81.5	77.5	36.5		15	77.5	73.5	51.5	18.5	15	18	12
RVCM 8-02	R1/4	11	89.5	85.5	39.5	19	83.5	79.5	57	22.5	19	16	83.5		

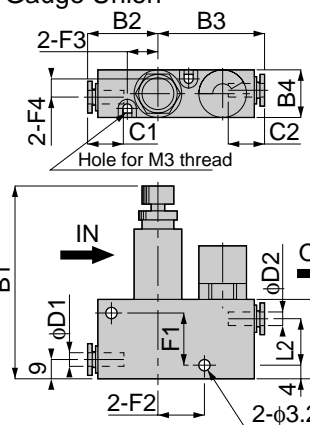


unit:inch

Model	Tube dia.φD inch(mm)	R	A	B1		B2	B3	L1		L2	L3	φP	C	H	Weight (oz)
				MAX	MIN			MAX	MIN						
RVCM 5/32-U10U	5/32(3.97)	10-32UNF	0.14	2.26	2.11	1.08	0.59	2.13	1.97	1.65	0.47	0.43	0.43	5/16	0.98
RVCM 5/32-N1U	5/32(3.97)	10-32UNF	0.31	3.21	3.05	1.42	0.59	3.05	2.89	2.03	0.73	0.59	0.59	1/2	1.96
RVCM 1/4-N1U	1/4(6.35)	NPT 1/8	0.31	3.21	3.05	1.44	0.59	3.05	2.89	2.03	0.73	0.59	0.67	1/2	2.25
RVCM 1/4-N2U	1/4(6.35)	NPT 1/4	0.43	3.52	3.37	1.56	0.75	3.29	3.13	2.24	0.89	0.75	0.67	11/16	3.32
RVCM 5/16-N1U	5/16(7.94)	NPT 1/8	0.31	3.21	3.05	1.44	0.59	3.05	2.89	2.03	0.73	0.59	0.71	1/2	1.99
RVCM 5/16-N2U	5/16(7.94)	NPT 1/4	0.43	3.52	3.37	1.56	0.75	3.29	3.13	2.24	0.89	0.75	0.71	11/16	3.07

# RVUM

Gauge Union



unit:mm

Model	Tube dia. φD1	Tube dia. φD2	B1		B2	B3	B4	L1	L2	C1	C2	F1	F2	F3	F4	Mass (g)
			max	min												
RVUM 4-4	4	4	63	59	22	33	15	25	15	11.5	11.5	17	15	10	4.5	47.5
RVUM 6-4	6	4	63	59	22.5	33	15	25	15	12	11.5	17	15	10	4.5	47.5
RVUM 6-6		6				33.5					12					
RVUM 8-6	8	6	67.5	63.5	28.5	40.5	19	29	17	18.5	17.5	21	19.5	11.5	6.5	73
RVUM 8-8		8									18.5					

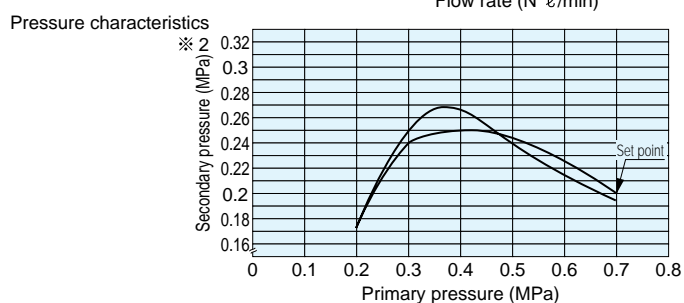
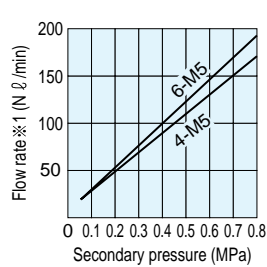
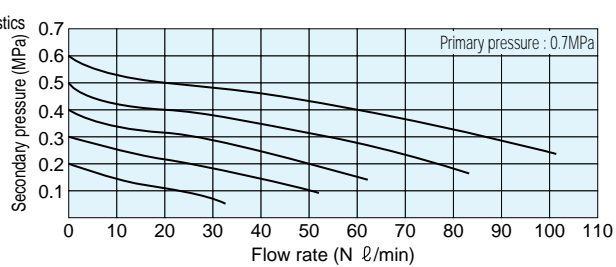


## Flow characteristics

Straight type

RVC 4-M5  
6-M5

RVS 4-M5  
6-M5



※1. Flow from secondary to primary.  
 ※2. Primary pressure varies from 0.7 to 0.2 to 0.7 Mpa.

## Regulator

### Characteristics

- The regulator comes with a direct mounting type pressure gauge (compact).
- The special scale of the pressure gauge can be read not only from front but also from other directions.
- The push lock type handle makes installation possible without resorting to any tool.

### Regulator Specifications

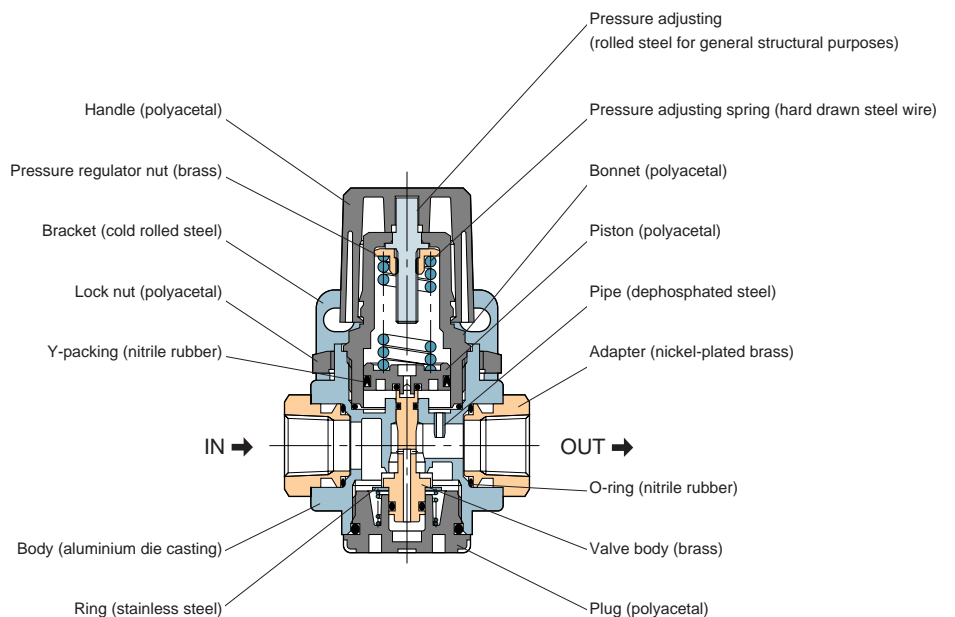
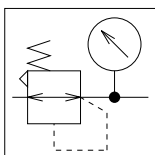
Type	RVF 300-□	
Connection bore	Rc1/4(02)	Rc3/8(03)
Fluid admitted	Air	
Max. Operating pressure	145psi (1MPa)	
Pressure setting range	7.25~123.25psi (0.05~0.85MPa)	
Proof pressure	174psi (1.2MPa)	
Service temperature range	41~122°F (5~50°C)	

### Pressure Gauge Specifications

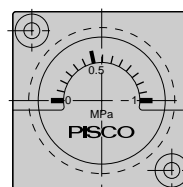
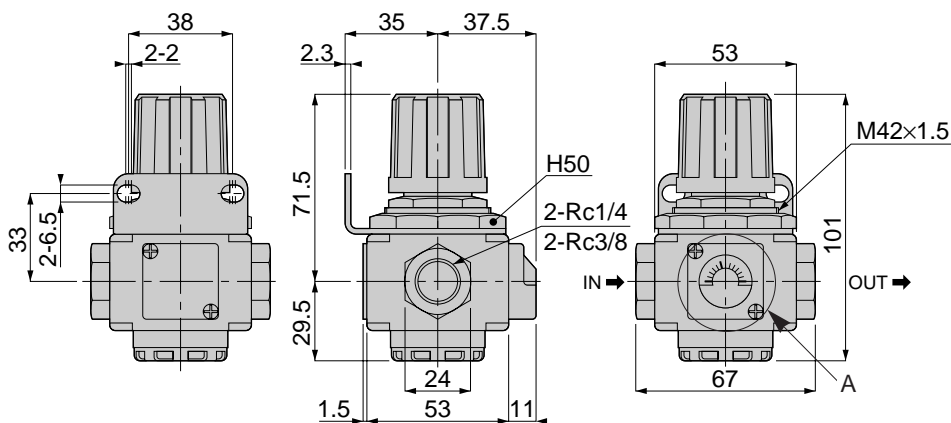
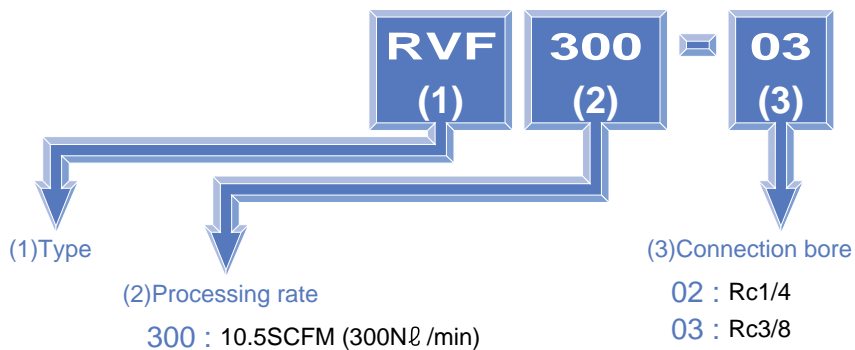
Type	GK 46-B20
Fluid admitted	Air
Indicated pressure range	0~145psi (0~1MPa)
Accuracy (full scale)	±5%F.S

### Construction

Symbol for regulator with gauge



Model Designation (Example)



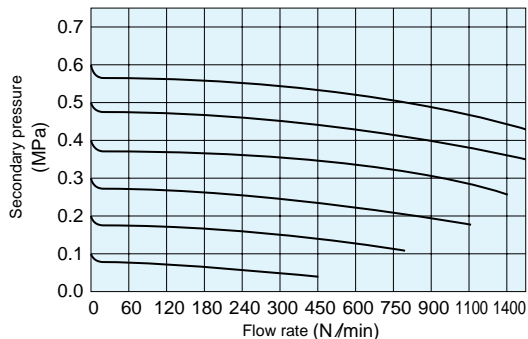
Unit: mm

Model	Weight(g)	
	(*)02	(*)03
RVF 300-□	465.5	444.5

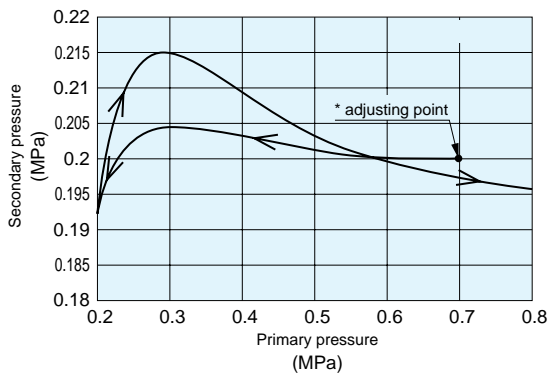
(\*) Connection bore

Characteristics

Flow characteristics



Pressure characteristics



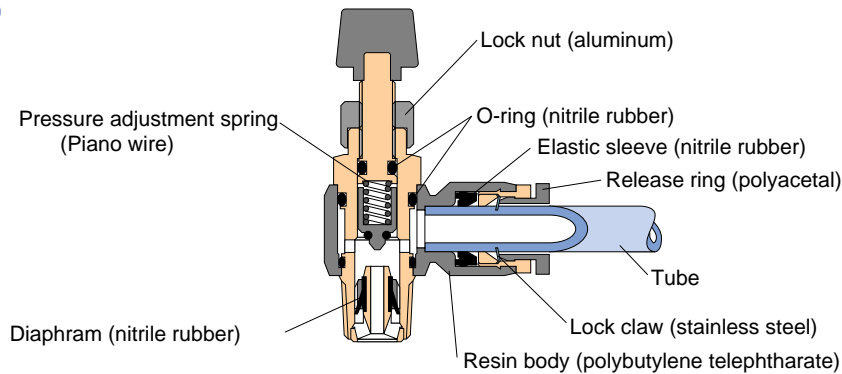
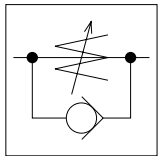
# Quick Fitting Type Pressure Control Valve Pressure Controller

## Features

- In driving a mechanism under high pressure, compressed air can be saved by use of the pressure controller to reduce the pressure only during home return.

## Construction

Graphical representation



## Specification

Fluid admitted	Air	
Service pressure range	0~150psi	0 ~ 0.9MPa
Setting pressure range	28.4~85.3psi	0.2 ~ 0.6MPa
Service temperature range	32~140°F	0 ~ 60°C

## Model Designation (Example)

JPC 6 = 01 (4)

(1) Type      (2) Tube dia      (3) Thread size      (4) Hexagon flat-to-flat specification

Tube dia	mm Size				
Code	4	6	8	10	12
Size (mm)	φ4	φ6	φ8	φ10	φ12

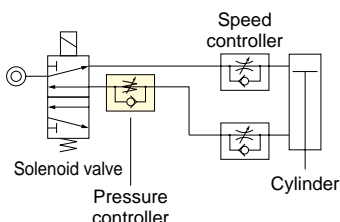
Tube dia	in. Size				
Code	5/32	1/4	5/16	3/8	1/2
Size (in.)	φ5/32	φ1/4	φ5/16	φ3/8	φ1/2

Thread size	Metric thread(mm)	Taper pipe thread			
Code	M5	01	02	03	04
Size	M5×0.8	R1/8	R1/4	R3/8	R1/2

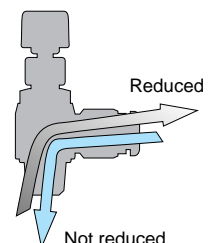
Thread size	Unified fine thread	American standard taper pipe thread			
Code	U10	N1	N2	N3	N4
Size	10~32UNF	NTP1/8	NTP1/4	NTP3/8	NTP1/2

(4) Hexagon flat-to-flat specification  
 U: Hexagon flat-to-flat inch spec. (NPT)  
 No code: Hexagon flat-to-flat mm spec.

## Application example



- In operating a complex driving mechanism like a cylinder, connect the pressure controller to the return air supply side of the solenoid valve. Then pressure reduction occurs only on the return stroke to the start position, thus economizing compressed air.
- \*The pressure can be set easily. Note, however, that change in the primary pressure can change the secondary pressure accordingly.



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**⚠ Detailed safety Instruction**

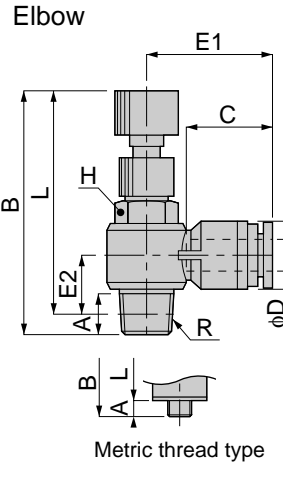
Before using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" on pages 23~24 and "Common Safety Instructions for Controllers" on pages 167~168.

**⚠ Warning**

1. Do not subject the product with a rotatable resin body to forcible swinging or rotation. Otherwise the body may suffer damage or develop leakage.
2. Do not use the Pressure Controller as a safety valve that requires accuracy. Pressure Controller is not designed for use as a safety valve.

**⚠ Caution**

1. Set the pressure by turning counterclockwise from the fully closed position of the needle. Without a relief mechanism, it is not possible to set it from the fully open position. To set the pressure again, release the pressure, from the secondary side beforehand.
2. Variation of primary pressure can affect secondary pressure, so take great care when the pressure variation in the primary side is large.



Metric thread type



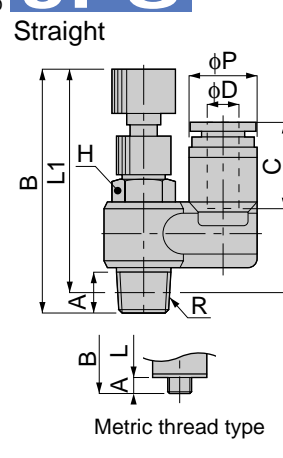
unit:mm

Model	Tube dia. φD	R	A	B		L		φP	C	E1	E2	H	Mass (g)
				max	min	max	min						
JPC 4-M5	4	M5×0.8	3.5	39	35.5	36	32.5	10	15	20	6.5	8	9
JPC 4-01		R1/8	8	48.5	44.5	44.5	40.5			21.5	9.5	10	19
JPC 6-M5	6	M5×0.8	3.5	39	35.5	36	32.5	12.5	17	24	7.5	8	10
JPC 6-01		R1/8	8	48.5	44.5	44.5	40.5			23.5	10.5	10	20
JPC 6-02		R1/4	11	52	48.5	46	42.5			25.5	12	14	36.5
JPC 8-01	8	R1/8	8	48.5	44.5	44.5	40.5	14.5	18	27	11.5	10	21.5
JPC 8-02		R1/4	11	52	48.5	46	42.5			28.5	13	14	37.5
JPC 8-03		R3/8	12	59	56	52.5	49.5			29	15	19	66.5
JPC 10-02	10	R1/4	11	52	48.5	46	42.5	17.5	20	31	15	14	41.5
JPC 10-03		R3/8	12	59	56	52.5	49.5					16.5	19
JPC 12-03	12	R3/8	12	59	56	52.5	49.5	21	23.5	37	18		73
JPC 12-04		R1/2	15	64.5	62	56.5	54					36.5	19.5



unit:inch

Model	Tube dia. φ D inch(mm)	R	A	B		L		φP	C	E1	E2	H	Weight (oz)
				MAX	MIN	MAX	MIN						
JPC 5/32-U10U	5/32(3.97)	10-32UNF	0.14	1.52	1.40	1.40	1.26	0.39	0.59	0.79	0.26	5/16	0.31
JPC 5/32-N1U	5/32(3.97)	NPT 1/8	0.31	1.91	1.75	1.75	1.59	0.39	0.59	0.85	0.41	7/16	0.70
JPC 1/4-N1U	1/4(6.35)	NPT 1/8	0.31	1.91	1.75	1.75	1.59	0.49	0.67	0.93	0.41	7/16	0.73
JPC 1/4-N2U	1/4(6.35)	NPT 1/4	0.43	2.05	1.91	1.89	1.67	0.49	0.67	1.00	0.47	9/16	1.27
JPC 5/16-N1U	5/16(7.94)	NPT 1/8	0.31	1.91	1.75	1.75	1.59	0.57	0.71	1.06	0.45	7/16	0.78
JPC 5/16-N2U	5/16(7.94)	NPT 1/4	0.43	2.05	1.91	1.89	1.67	0.57	0.71	1.12	0.51	9/16	1.31
JPC 5/16-N3U	5/16(7.94)	NPT 3/8	0.47	2.32	2.20	2.07	1.95	0.57	0.71	1.14	0.59	3/4	2.38
JPC 3/8-N2U	3/8(9.53)	NPT 1/4	0.43	2.05	1.91	1.89	1.67	0.69	0.79	1.22	0.57	9/16	1.44
JPC 3/8-N3U	3/8(9.53)	NPT 3/8	0.47	2.32	2.20	2.07	1.95	0.69	0.79	1.22	0.65	3/4	2.49
JPC 1/2-N3U	1/2(12.7)	NPT 3/8	0.47	2.32	2.20	2.07	1.95	0.83	0.93	1.46	0.71	3/4	2.60
JPC 1/2-N4U	1/2(12.7)	NPT 1/2	0.59	2.54	2.44	2.22	2.13	0.83	0.93	1.44	0.77	1	3.74



Metric thread type



unit:mm

Model	Tube dia. φD	R	A	B		L1		L2	φP	C	E1	E2	H	Mass (g)
				max	min	max	min							
JPS 4-M5	4	M5×0.8	3	39	35.5	36	32.5	23.5	10	15	10.5	6	8	9.5
JPS 4-01		R1/8	8	48.5	44.5	44.5	40.5	28.5			13	10.5	10	20
JPS 6-M5	6	M5×0.8	3	39	35.5	36	32.5	26	12.5	17	12	6	8	10.5
JPS 6-01		R1/8	8	48.5	44.5	44.5	40.5	31			14	10.5	10	21.5
JPS 6-02		R1/4	11	52	48.5	46	42.5	32			17	12	14	37.5
JPS 8-01	8	R1/8	8	48.5	44.5	44.5	40.5	32	14.5	18	15	10.5	10	22.5
JPS 8-02		R1/4	11	52	48.5	46	42.5	33.5			18	12	14	39
JPS 8-03		R3/8	12	59	56	52.5	49.5	37.5			19	15	19	68.5
JPS 10-02	10	R1/4	11	52	48.5	46	42.5	36	18	20	20	12	14	42.5
JPS 10-03		R3/8	12	59	56	52.5	49.5	39.5					21	15
JPS 12-03	12	R3/8	12	59	56	52.5	49.5	42.5	21	23.5	22.5	15		76
JPS 12-04		R1/2	15	64.5	62	56.5	54	47					25.5	18



unit:inch

Model	Tube dia. φ D inch(mm)	R	A	B		L1		L2	φP	C	E1	E2	H	Weight (oz)
				MAX	MIN	MAX	MIN							
JPS 5/32-U10U	5/32(3.97)	10-32UNF	0.14	1.52	1.40	1.40	1.26	0.93	0.39	0.59	0.41	0.26	5/16	0.33
JPS 5/32-N1U	5/32(3.97)	NPT 1/8	0.31	1.91	1.75	1.75	1.59	1.14	0.39	0.59	0.51	0.41	7/16	0.74
JPS 1/4-N1U	1/4(6.35)	NPT 1/8	0.31	1.91	1.75	1.75	1.59	1.22	0.49	0.67	0.55	0.41	7/16	0.77
JPS 1/4-N2U	1/4(6.35)	NPT 1/4	0.43	2.05	1.91	1.89	1.67	1.26	0.49	0.67	0.67	0.47	9/16	1.32
JPS 5/16-N1U	5/16(7.94)	NPT 1/8	0.31	1.91	1.75	1.75	1.59	1.28	0.57	0.71	0.59	0.45	7/16	0.83
JPS 5/16-N2U	5/16(7.94)	NPT 1/4	0.43	2.05	1.91	1.89	1.67	1.32	0.57	0.71	0.71	0.51	9/16	1.37
JPS 5/16-N3U	5/16(7.94)	NPT 3/8	0.47	2.32	2.20	2.07	1.95	1.48	0.57	0.71	0.75	0.59	3/4	2.45
JPS 3/8-N2U	3/8(9.53)	NPT 1/4	0.43	2.05	1.91	1.89	1.67	1.42	0.69	0.79	0.79	0.57	9/16	1.49
JPS 3/8-N3U	3/8(9.53)	NPT 3/8	0.47	2.32	2.20	2.07	1.95	1.57	0.69	0.79	0.83	0.65	3/4	2.58
JPS 1/2-N3U	1/2(12.7)	NPT 3/8	0.47	2.32	2.20	2.07	1.95	1.67	0.83	0.93	0.89	0.71	3/4	2.71
JPS 1/2-N4U	1/2(12.7)	NPT 1/2	0.59	2.54	2.44	2.22	2.13	1.85	0.83	0.93	1.00	0.77	1	3.93

### Characteristics

Elbow type, Straight type

