

Quick Fitting Type Needle Throttle Valve

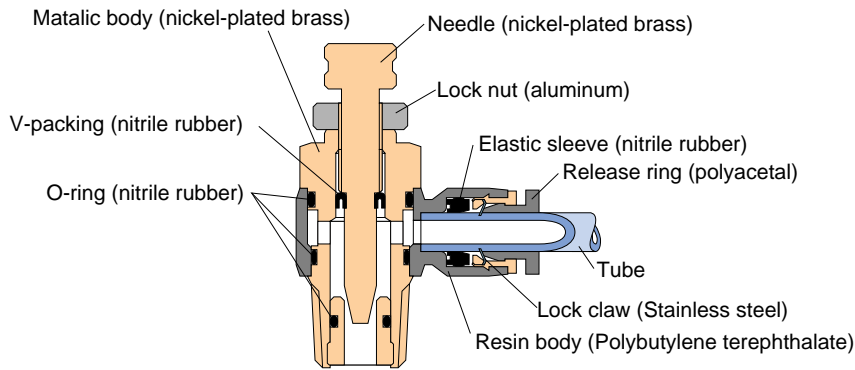
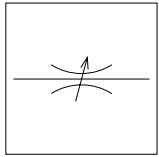
Throttle Valve

Features

- The throttle valve controls the operation speed of a pneumatic device and the transmission of air pressure signals.
- The flow rate can be adjusted while the air is flowing.

Construction

Graphical representation



Specification

Fluid admitted	Air	
Service pressure range	0~150psi	0~0.9MPa
Working Vacuum	-29.5 in. Hg	-750mmHg
Service temperature range	32~140°F	0~60°C

Model Designation (Example)

JNC 6 = 01

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

mm Size					
Code	4	6	8	10	12
Size	φ4	φ6	φ8	φ10	φ12

inch size						
Code	5/32	3/16	1/4	5/16	3/8	1/2
Size(mm)	φ5/32	φ3/16	φ6.35	φ7.94	φ9.53	φ12.7

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

Unified fine thread		Amwrican standard taper pipe thread			
Code	U10	N1	N2	N3	N4
Size	10-32 UNF	NPT1/8	NPT1/4	NPT3/8	NPT1/2

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

⚠ Detailed Safety Instruction

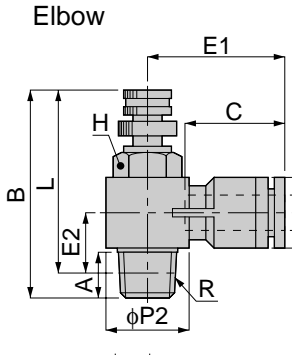
Before using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" on pages 23~24 and "Common Safety Instructions for Controllers" on pages 167~168.

⚠ Warning

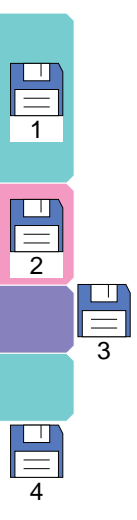
1. Adjust speed of the actuator by opening the needle gradually from the full closed position. With the needle open, there are chances of the actuator flying out. Turn the needle clockwise to close or counterclockwise to open.
2. Do not subject the product with a rotary resin body to forcible swinging or rotation. Otherwise the body may suffer damage or develop leakage.

⚠ Caution

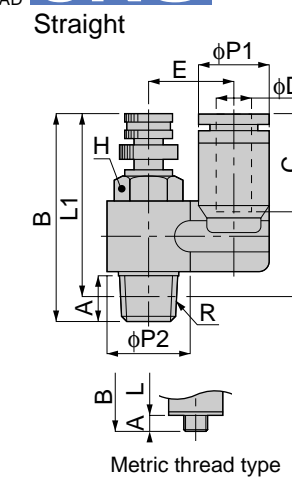
1. The throttle valve is designed to tolerate some air flow at fully closed position. Therefore do not use it for applications that permits no air flow.



Model	Tube dia. ϕD	R	A	B		L		$\phi P1$	$\phi P2$	C	E1	E2	H	Mass (g)
				max	min	max	min							
JNC 4-M5	4	M5x0.8	3	29.5	27	26.5	24	10	10	15	20	6.5	8	9
JNC 4-01		R1/8	8	40.5	34	36.5	30							
JNC 6-M5	6	M5x0.8	3	29.5	27	26.5	24	12.5	14.5	17	23.5	10.5	10	20
JNC 6-01		R1/8	8	40.5	34	36.5	30							
JNC 6-02	R1/4	11	47.5	41	41.5	35	18.5	18.5	27	11.5	10	20	20	
JNC 8-01	8	R1/8	8	40.5	34	36.5	30	14.5	18.5	18.5	28.5	13	14	36
JNC 8-02		R1/4	11	47.5	41	41.5	35							
JNC 8-03	R3/8	12	53.5	46.5	47	40	22	29	15	19	67	67		
JNC 10-02	10	R1/4	11	47.5	41	41.5	35	18	18	20.5	31	14.5	14	40
JNC 10-03		R3/8	12	53.5	46.5	47	40							
JNC 12-03	12	R3/8	12	53.5	46.5	47	40	21.5	22	23.5	37	18	19	72
JNC 12-04		R1/2	15	59	51.5	51	43.5							
JNC 12-04	R1/2	15	59	51.5	51	43.5	28	23.5	36.5	19.5	24	103	103	
JNC 1/4-M5	1/4	M5x0.8	3.5	29.5	27	26	23.5	12.5	14.5	17	24	7.5	8	10
JNC 1/4-01		R1/8	8	40.5	34	36.5	30							
JNC 1/4-02	R1/4	11	47.5	41	41.5	35	18.5	18.5	25.5	12	14	36	36	
JNC 5/16-01	5/16	R1/8	8	40.5	34	36.5	30	14.5	18.5	18.5	28.5	13	14	39
JNC 5/16-02		R1/4	11	47.5	41	41.5	35							
JNC 5/16-03	R3/8	12	53.5	46.5	47	40	22	29	15	19	67	67		
JNC 3/8-02	3/8	R1/4	11	47.5	41	41.5	35	18	18.5	20.5	31	14.5	14	42
JNC 3/8-03		R3/8	12	53.5	46.5	47	40							



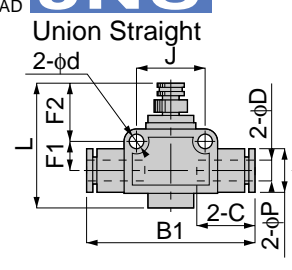
Model	Tube dia. ϕD inch(mm)	R	A	B		L		$\phi P1$	$\phi P2$	C	E1	E2	H	Weight (oz)
				MAX	MIN	MAX	MIN							
JNC 5/32-U10U	5/32(3.97)	10-32UNF	0.14	1.16	1.06	1.02	0.93	0.39	0.39	0.59	0.79	0.26	5/16	0.29
JNC 5/32-N1U	5/32(3.97)	NPT 1/8	0.31	1.59	1.34	1.44	1.18	0.39	0.57	0.59	0.85	0.41	7/16	0.70
JNC 3/16-U10U	3/16(4.76)	10-32UNF	0.14	1.14	1.06	1.02	0.93	0.49	0.39	0.67	0.94	0.30	5/16	0.34
JNC 3/16-N1U	3/16(4.76)	NPT 1/8	0.31	1.59	1.34	1.44	1.18	0.49	0.57	0.67	0.93	0.41	7/16	0.74
JNC 3/16-N2U	3/16(4.76)	NPT 1/4	0.43	1.87	1.61	1.63	1.38	0.49	0.73	0.67	1.00	0.47	9/16	1.36
JNC 1/4-U10U	1/4(6.35)	10-32UNF	0.14	1.14	1.06	1.02	0.93	0.49	0.39	0.67	0.94	0.30	5/16	0.33
JNC 1/4-N1U	1/4(6.35)	NPT 1/8	0.31	1.59	1.34	1.44	1.18	0.49	0.57	0.67	0.93	0.41	7/16	0.73
JNC 1/4-N2U	1/4(6.35)	NPT 1/4	0.43	1.87	1.61	1.63	1.38	0.49	0.73	0.67	1.00	0.47	9/16	1.36
JNC 5/16-N1U	5/16(7.94)	NPT 1/8	0.31	1.59	1.34	1.44	1.18	0.57	0.57	0.73	1.06	0.45	7/16	0.79
JNC 5/16-N2U	5/16(7.94)	NPT 1/4	0.43	1.87	1.61	1.63	1.38	0.57	0.73	0.73	1.12	0.51	9/16	1.41
JNC 5/16-N3U	5/16(7.94)	NPT 3/8	0.47	2.11	1.83	1.85	1.57	0.57	0.87	0.73	1.14	0.59	3/4	2.50
JNC 3/8-N2U	3/8(9.53)	NPT 1/4	0.43	1.87	1.61	1.63	1.38	0.71	0.71	0.81	1.22	0.57	9/16	1.53
JNC 3/8-N3U	3/8(9.53)	NPT 3/8	0.47	2.11	1.83	1.83	1.57	0.71	0.87	0.81	1.24	0.65	3/4	2.61
JNC 1/2-N3U	1/2(12.7)	NPT 3/8	0.47	2.11	1.83	1.83	1.38	0.85	0.87	0.93	1.46	0.71	3/4	2.72
JNC 1/2-N4U	1/2(12.7)	NPT 1/2	0.59	2.32	2.03	2.01	1.57	0.85	1.10	0.93	1.44	0.77	1	4.25



Model	Tube dia. ϕD	R	A	B		L1		L2	$\phi P1$	$\phi P2$	C	E	H	Mass (g)
				max	min	max	min							
JNS 4-M5	4	M5x0.8	3	29.5	27	26.5	24	23.5	10	10	15	10.5	8	9
JNS 4-01		R1/8	8	40.5	34	36.5	30							
JNS 6-M5	6	M5x0.8	3	29.5	27	26.5	24	26	12.5	14.5	17	12	8	10
JNS 6-01		R1/8	8	40.5	34	36.5	30							
JNS 6-02	R1/4	11	47.5	41	41.5	35	32	18.5	18.5	17	14	38	38	
JNS 8-01	8	R1/8	8	40.5	34	36.5	30	32.5	14.5	18.5	18.5	15	10	22
JNS 8-02		R1/4	11	47.5	41	41.5	35							
JNS 8-03	R3/8	12	53.5	46.5	47	40	37.5	22	19	19	68	68		
JNS 10-02	10	R1/4	11	47.5	41	41.5	35	18	18.5	20.5	20	14	43	
JNS 10-03		R3/8	12	53.5	46.5	47	40							40
JNS 12-03	12	R3/8	12	53.5	46.5	47	40	21.5	22	23.5	22.5	19	75	
JNS 12-04		R1/2	15	59	51.5	51	43.5							47
JNS 12-04	R1/2	15	59	51.5	51	43.5	47	28	24	110	110			
JNS 1/4-M5	1/4	M5x0.8	3.5	29.5	27	26	23.5	25.5	12.5	14.5	17	12	8	10
JNS 1/4-01		R1/8	8	34.5	35	35.5	31							
JNS 1/4-02	R1/4	11	47.5	41.5	41.5	35.5	32	18.5	17	14	38	38		
JNS 5/16-01	5/16	R1/8	8	39.5	35	35.5	31	32.5	14.5	18.5	18.5	15	10	22
JNS 5/16-02		R1/4	11	47.5	41.5	41.5	35.5							
JNS 5/16-03	R3/8	12	53	46.5	46.5	40	37.5	22	19	19	68	68		
JNS 3/8-02	3/8	R1/4	11	47.5	41.5	41.5	35.5	36	18	20.5	20	14	44	
JNS 3/8-03		R3/8	12	53	46.5	46.5	40							40



Model	Tube dia. ϕD inch(mm)	R	A	B		L		L2	$\phi P1$	$\phi P2$	C	E	H	Weight (oz)
				MAX	MIN	MAX	MIN							
JNS 5/32-U10U	5/32(3.97)	10-32UNF	0.14	1.16	1.06	1.02	0.93	0.91	0.39	0.39	0.59	0.41	5/16	0.31
JNS 5/32-N1U	5/32(3.97)	NPT 1/8	0.31	1.59	1.34	1.44	1.18	1.14	0.39	0.57	0.59	0.51	7/16	0.74
JNS 3/16-U10U	3/16(4.76)	10-32UNF	0.14	1.16	1.06	1.02	0.93	1.00	0.49	0.39	0.67	0.47	5/16	0.35
JNS 3/16-N1U	3/16(4.76)	NPT 1/8	0.31	1.59	1.34	1.44	1.18	1.22	0.49	0.57	0.67	0.55	7/16	0.78
JNS 3/16-N2U	3/16(4.76)	NPT 1/4	0.43	1.87	1.61	1.63	1.38	1.26	0.49	0.73	0.67	0.67	9/16	1.41
JNS 1/4-U10U	1/4(6.35)	10-32UNF	0.14	1.16	1.06	1.02	0.93	1.00	0.49	0.39	0.67	0.47	5/16	0.34
JNS 1/4-N1U	1/4(6.35)	NPT 1/8	0.31	1.59	1.34	1.44	1.18	1.22	0.49	0.57	0.67	0.55	7/16	0.77
JNS 1/4-N2U	1/4(6.35)	NPT 1/4	0.43	1.87	1.61	1.63	1.38	1.26	0.49	0.73	0.67	0.67	9/16	1.41
JNS 5/16-N1U	5/16(7.94)	NPT 1/8	0.31	1.59	1.34	1.44	1.18	1.28	0.57	0.57	0.73	0.59	7/16	0.83
JNS 5/16-N2U	5/16(7.94)	NPT 1/4	0.43	1.87	1.61	1.61	1.38	1.32	0.57	0.73	0.73	0.71	9/16	1.46
JNS 5/16-N3U	5/16(7.94)	NPT 3/8	0.47	2.11	1.83	1.85	1.57	1.48	0.57	0.87	0.73	0.75	3/4	2.58
JNS 3/8-N2U	3/8(9.53)	NPT 1/4	0.43	1.87	1.61	1.63	1.38	1.42	0.71	0.73	0.81	0.79	9/16	1.59
JNS 3/8-N3U	3/8(9.53)	NPT 3/8	0.47	2.11	1.83	1.85	1.57	1.57	0.71	0.87	0.81	0.83	3/4	2.70
JNS 1/2-N3U	1/2(12.7)	NPT 3/8	0.47	2.11	1.83	1.85	1.57	1.67	0.85	0.87	0.93	0.89	3/4	2.83
JNS 1/2-N4U	1/2(12.7)	NPT 1/2	0.59	2.32	2.03	2.01	1.71	1.85	0.85	1.10	0.93	1.00	1	4.43



Model	Tube dia. ϕD	B1	B2	L		ϕP	C	J	ϕd	F1	F2	Mass (g)
				max	min							
JNU 4	4	37.5	11	29.5	27.5	10.5	15	14	3.2	6.5	14.5	12
JNU 6	6	46	15	44	38.5	13	17	20	4.3	8.5	19	33
JNU 8	8	51.5	18	48	42.5	15	18.5	22	4.3	9.5	21	44
JNU 10	10	59.5	21	53.5	48	18	20.5	26	4.3	11	25	77
JNU 12	12	72	28	58	51	21	23.5	32	4.3	13	22	127
JNU 1/4	1/4	46	15	44	38.5	13	17	20	4.3	8.5	19	33
JNU 5/16	5/16	51.5	18	48	42.5	15	18.5	22	4.3	9.5	21	44
JNU 3/8	3/8	59.5	21	53.5	48	18	20.5	26	4.3	11	25	77

