Quick-Fitting Joint for Swiveling and Swinging Connections

Rotary Joint

Package:1 pc. in a bag

■These piping joints are used for swiveling and swinging connections.

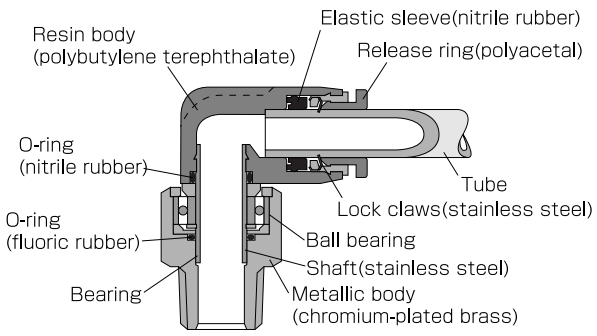
■The joints, incorporating a bearing, are suited for fast swiveling and swinging connctions.

Specifications

Fluid admitted	Air,Vacuum	
Service pressure range	0~150psi	0~0.9MPa(0~9.9kgf/cm²)
Working vacuum	-29.5in.Hg	-750mmHg(10Torr)
Service temperature range	32~140°F	0~60°C

Notes: ·Use the rotary joint with air only, Never use them with water or other liquids, or with gases other than air.
·To Screw a fitting down, be sure to tighten with a wrench applied to the hexagonal part of the stud.

Construction



Allowable No. of revolutions of Rotary Joint

Tube dia.	φ4,φ5/32	φ6,φ3/16,φ1/4	φ8,φ5/16	φ10,φ3/8	φ12,φ1/2
r.p.m	500	500	400	300	250

Model Designation(Example)

RC ① 6 ② - 01 ③ ④

①Type

②Tube Dia.(φD)

	mm size				
Code	4	6	8	10	12
Size.	φ4mm	φ6mm	φ8mm	φ10mm	φ12mm
	in. size				
Code	5/32	3/16	1/4	5/16	3/8	1/2
Size.	φ5/32	φ3/16	φ1/4	φ5/16	φ3/8	φ1/2

③Thread size(R)

			Taper pipe thread			
Code	M5	M6	01	02	03	04
Size	M5×0.8	M6×1.0	R1/8	R1/4	R3/8	R1/2
	Unified fine thread		American standard taper pipe thread			
Code	U10		N1	N2	N3	N4
Size	10-32UNF		NPT1/8	NPT1/4	NPT3/8	NPT1/2

④U:Hexagon flat-to-flat inch spec.(NPT)
No code: Hexagon flat-to-flat metric apec.

Detailed Safety Instructions

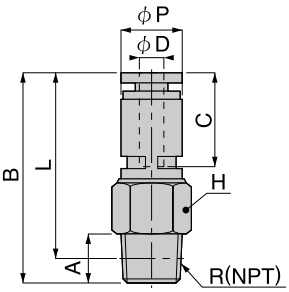
Before using the PISCO device, be sure to read the "Safety Instructions","Common Safety Instructions for Products Listed in This Manual"on page 3 and "Common Safety Instructions for Quick-Fitting Joint"on pages 4 and 5.

⚠Caution

1.Employ usage in which the radial load becomes a minimum. Radial load can shorten the life of your Rotary Joint.
2.Use a urethane tube where violent swinging is involved. Nylon tube or other hard tubes may increase radial load.

PISCO®

RC Straight



Unit : inch

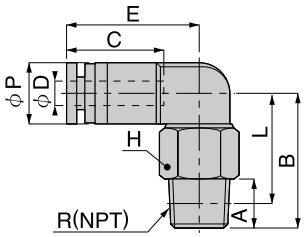
Model	Tube dia. ϕD(mm)	R	A	B	L	ΦP	C	H	※1 r.p.m	※2g-cm less than	Weight (OZ)	Orifice ϕMM	Eff.a. mm2	CV
RC 4-M5	4	M5	0.14	1.30	1.16	0.41	0.59	0.47	500	60	0.42	1.80	1.90	0.10
RC 4-M6	4	M6	0.18	1.34	1.16	0.41	0.59	0.47	500	60	0.46	2.50	4.20	0.23
RC 4-01	4	R1/8	0.31	1.36	1.20	0.41	0.59	0.47	500	60	0.49	2.50	3.60	0.20
RC 6-M6	6	M6	0.18	1.48	1.30	0.51	0.67	0.55	500	120	0.65	3.00	4.50	0.24
RC 6-01	6	R1/8	0.31	1.46	1.30	0.51	0.67	0.55	500	120	0.60	4.00	9.00	0.49
RC 6-02	6	R1/4	0.43	1.54	1.30	0.51	0.67	0.55	500	120	0.81	4.00	9.00	0.49
RC 8-01	8	R1/8	0.31	1.81	1.65	0.59	0.71	0.67	400	150	1.13	6.00	20.00	1.08
RC 8-02	8	R1/4	0.43	1.77	1.54	0.59	0.71	0.67	400	150	1.09	6.00	20.00	1.08
RC 8-03	8	R3/8	0.47	1.77	1.52	0.59	0.71	0.67	400	150	1.34	6.00	20.00	1.08
RC 10-01	10	R1/8	0.31	2.20	2.05	0.71	0.79	0.87	300	200	2.38	7.00	35.00	1.90
RC 10-02	10	R1/4	0.43	2.32	2.09	0.71	0.79	0.94	300	200	2.97	7.00	35.00	1.90
RC 10-03	10	R3/8	0.47	2.22	1.97	0.71	0.79	0.87	300	200	2.29	8.00	35.00	1.90
RC 10-04	10	R1/2	0.59	2.32	2.01	0.71	0.79	0.87	300	200	2.85	8.00	35.00	1.90
RC 12-02	12	R1/4	0.43	2.44	2.18	0.83	0.92	0.94	250	250	3.27	7.00	50.00	2.71
RC 12-03	12	R3/8	0.47	2.46	2.20	0.83	0.92	0.94	250	250	3.34	9.50	50.00	2.71
RC 12-04	12	R1/2	0.59	2.46	2.15	0.83	0.92	0.94	250	250	3.56	9.50	50.00	2.71
RC 1/4-01	1/4	R1/8	0.31	1.54	1.38	0.51	0.67	0.55	500	120	0.60	4.00	9.00	0.49
RC 1/4-02	1/4	R1/4	0.43	1.61	1.38	0.51	0.67	0.55	500	120	0.81	4.00	9.00	0.49
RC 5/16-01	5/16	R1/8	0.31	1.81	1.65	0.59	0.71	0.67	400	150	1.13	6.00	20.00	1.08
RC 5/16-02	5/16	R1/4	0.43	1.77	1.54	0.59	0.71	0.67	400	150	1.09	6.00	20.00	1.08
RC 5/16-03	5/16	R3/8	0.47	1.77	1.52	0.59	0.71	0.67	400	150	1.34	6.00	20.00	1.08
RC 3/8-03	3/8	R3/8	0.47	2.22	1.97	0.71	0.79	0.87	300	200	2.29	8.00	35.00	1.90
RC 3/8-04	3/8	R1/2	0.59	2.32	2.01	0.71	0.79	0.87	300	200	2.85	8.00	35.00	1.90

※1 Allowable revolutions ※2 Idling torque

Unit : inch

Model	Tube dia. ϕD	NPT	A	B	L	ΦP	C	H	Allowable Revolutions	Idling torque under g·cm	Weight (OZ)	Orifice ϕMM	Eff.a. mm2	CV
RC 5/32-U10U	5/32	10-32UNF	0.14	1.30	1.16	0.41	0.59	1/2	500	60	0.46	1.80	1.90	0.10
RC 5/32-N1U	5/32	1/8	0.31	1.36	1.20	0.51	0.59	1/2	500	60	0.52	2.50	3.60	0.20
RC 3/16-N1U	3/16	1/8	0.31	1.46	1.30	0.51	0.67	9/16	500	120	0.63	4.00	7.10	0.38
RC 3/16-N2U	3/16	1/4	0.43	1.54	1.30	0.51	0.67	9/16	500	120	0.81	4.00	6.30	0.34
RC 1/4-N1U	1/4	1/8	0.31	1.46	1.30	0.51	0.67	9/16	500	120	0.64	4.00	9.00	0.49
RC 1/4-N2U	1/4	1/4	0.43	1.54	1.30	0.51	0.67	9/16	500	120	0.82	4.00	9.00	0.49
RC 5/16-N1U	5/16	1/8	0.31	1.81	1.65	0.59	0.71	11/16	400	150	1.19	6.00	20.00	1.08
RC 5/16-N2U	5/16	1/4	0.43	1.77	1.54	0.59	0.71	11/16	400	150	1.13	6.00	20.00	1.08
RC 5/16-N3U	5/16	3/8	0.47	1.77	1.52	0.59	0.71	11/16	400	150	1.38	6.00	20.00	1.08
RC 3/8-N3U	3/8	3/8	0.47	2.22	1.97	0.71	0.79	7/8	300	200	2.48	8.00	37.80	2.05
RC 3/8-N4U	3/8	1/2	0.59	2.32	2.01	0.71	0.79	7/8	300	200	3.01	8.00	36.30	1.97
RC 1/2-N3U	1/2	3/8	0.47	2.46	2.20	0.83	0.93	1	250	250	3.56	9.50	50.00	2.71
RC 1/2-N4U	1/2	1/2	0.59	2.46	2.13	0.83	0.93	1	250	250	3.70	9.50	50.00	2.71

RL Eibow



Unit : inch

Model	Tube dia. ΦD(mm)	R	A	B	L	ΦP	C	E	H	※1 r.p.m	※2g-cm less than	Weight (OZ)	Orifice ΦMM	Eff.a. mm2	CV
RL 4-M5	4	M5	0.14	0.81	0.67	0.41	0.59	0.79	0.47	500	60	0.46	1.80	1.50	0.08
RL 4-M6	4	M6	0.18	0.85	0.67	0.41	0.59	0.79	0.47	500	60	0.49	2.50	4.00	0.22
RL 4-01	4	R1/8	0.31	0.87	0.71	0.41	0.59	0.79	0.47	500	60	0.53	2.50	2.90	0.16
RL 6-M6	6	M6	0.18	0.96	0.79	0.51	0.67	0.91	0.55	500	120	0.69	3.00	6.10	0.33
RL 6-01	6	R1/8	0.31	0.94	0.79	0.51	0.67	0.91	0.55	500	120	0.67	4.00	7.50	0.41
RL 6-02	6	R1/4	0.43	1.02	0.79	0.51	0.67	0.91	0.55	500	120	0.81	4.00	7.50	0.41
RL 8-01	8	R1/8	0.31	1.24	1.08	0.59	0.71	1.02	0.67	400	150	1.16	6.00	16.50	0.89
RL 8-02	8	R1/4	0.43	1.20	0.96	0.59	0.71	1.02	0.67	400	150	1.13	6.00	16.50	0.89
RL 8-03	8	R3/8	0.47	1.20	0.94	0.59	0.71	1.02	0.67	400	150	1.37	6.00	16.50	0.89
RL 10-01	10	R1/8	0.31	1.38	1.22	0.71	0.79	1.18	0.87	300	200	2.15	7.00	22.00	1.19
RL 10-02	10	R1/4	0.43	1.50	1.26	0.71	0.79	1.18	0.94	300	200	2.73	7.00	21.00	1.14
RL 10-03	10	R3/8	0.47	1.42	1.16	0.71	0.79	1.18	0.87	300	200	1.97	8.00	30.00	1.63
RL 10-04	10	R1/2	0.59	1.52	1.20	0.71	0.79	1.18	0.87	300	200	2.53	8.00	24.00	1.30
RL 12-02	12	R1/4	0.43	1.61	1.38	0.85	0.92	1.28	0.94	250	250	2.92	7.00	42.50	2.30
RL 12-03	12	R3/8	0.47	1.65	1.40	0.85	0.92	1.30	0.94	250	250	2.96	9.50	42.50	2.30
RL 12-04	12	R1/2	0.59	1.65	1.34	0.85	0.92	1.30	0.94	250	250	3.17	9.50	42.50	2.30
RL 1/4-01	1/4	R1/8	0.31	0.94	0.79	0.51	0.67	0.91	0.55	500	120	0.67	4.00	7.50	0.41
RL 1/4-02	1/4	R1/4	0.43	1.02	0.79	0.51	0.67	0.91	0.55	500	120	0.81	4.00	7.50	0.41
RL 5/16-01	5/16	R1/8	0.31	1.24	1.08	0.59	0.71	1.02	0.67	400	150	1.16	6.00	16.50	0.89
RL 5/16-02	5/16	R1/4	0.43	1.20	0.96	0.59	0.71	1.02	0.67	400	150	1.13	6.00	16.50	0.89
RL 5/16-03	5/16	R3/8	0.47	1.20	0.94	0.59	0.71	1.02	0.67	400	150	1.37	6.00	16.50	0.89
RL 3/8-03	3/8	R3/8	0.47	1.42	1.16	0.71	0.79	1.18	0.87	300	200	1.97	8.00	30.00	1.63
RL 3/8-04	3/8	R1/2	0.59	1.52	1.20	0.71	0.79	1.18	0.87	300	200	2.53	8.00	30.00	1.63

※1 Allowable revolutions ※2 Idling torque

Unit : inch

Model	Tube dia. ΦD	NPT	A	B	L	ΦP	C	E	H	Allowable Revolutions	Idling torque under g·cm	Weight (OZ)	Orifice ΦMM	Eff.a. mm2	CV
RL 5/32-U10U	5/32	10-32UNF	0.14	0.81	0.67	0.41	0.59	0.79	1/2	500	60	0.49	1.80	1.50	0.08
RL 5/32-N1U	5/32	1/8	0.31	0.87	0.71	0.41	0.59	0.79	1/2	500	60	0.54	2.50	2.90	0.16
RL 3/16-N1U	3/16	1/8	0.31	0.94	0.79	0.51	0.67	0.91	9/16	500	120	0.67	4.00	5.80	0.31
RL 3/16-N2U	3/16	1/4	0.43	1.02	0.79	0.51	0.67	0.91	9/16	500	120	0.84	4.00	6.30	0.34
RL 1/4-N1U	1/4	1/8	0.31	0.94	0.79	0.51	0.67	0.91	9/16	500	120	0.65	4.00	7.50	0.41
RL 1/4-N2U	1/4	1/4	0.43	1.02	0.79	0.51	0.67	0.91	9/16	500	120	0.83	4.00	7.50	0.41
RL 5/16-N1U	5/16	1/8	0.31	1.24	1.08	0.59	0.71	1.02	11/16	400	150	1.24	6.00	16.50	0.89
RL 5/16-N2U	5/16	1/4	0.43	1.20	0.96	0.59	0.71	1.02	11/16	400	150	1.18	6.00	16.50	0.89
RL 5/16-N3U	5/16	3/8	0.47	1.20	0.94	0.59	0.71	1.02	11/16	400	150	1.42	6.00	16.50	0.89
RL 3/8-N3U	3/8	3/8	0.47	1.42	1.16	0.71	0.79	1.18	7/8	300	200	2.23	8.00	27.20	1.47
RL 3/8-N4U	3/8	1/2	0.59	1.52	1.20	0.71	0.79	1.18	7/8	300	200	2.77	8.00	26.90	1.46
RL 1/2-N3U	1/2	3/8	0.47	1.65	1.40	0.85	0.93	1.30	1	250	250	3.22	9.50	42.50	2.30
RL 1/2-N4U	1/2	1/2	0.59	1.65	1.34	0.85	0.93	1.30	1	250	250	3.37	9.50	42.50	2.30