

Quick-Fitting Joint for High Speed Swiveling and Swinging Connections

High Rotary Joint

Package : 1 pc. in a bag

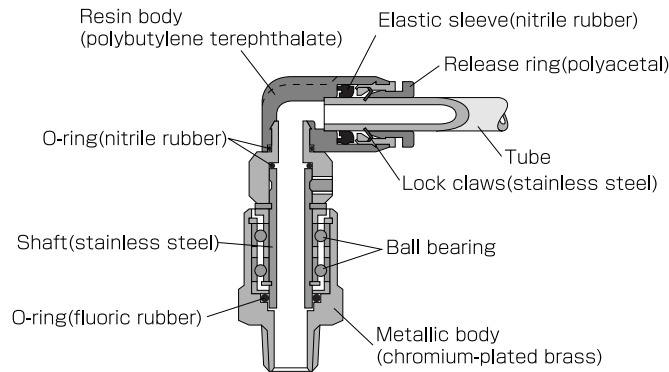
■The High Rotary Joint, employing two bearing, is suitable for high speed swiveling and swinging connections where the Rotary Joint cannot cover.

Specifications

Fluid admitted	Air, Vacuum	
Service pressure range	0~150psi	0~0.9MPa(0~9.9kgf/cm ²)
Working vacuum	-29.5in.Hg	-750mmHg(10Torr)
Service temperature range	32~140°F	0~60°C

Notes: Use the high 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



Model Designation(Example)

RHL 6 - 01

① ② ③ ④

①Type

②Tube Dia. (φD)
③Thread size(R) } Same as Rotary Joint

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

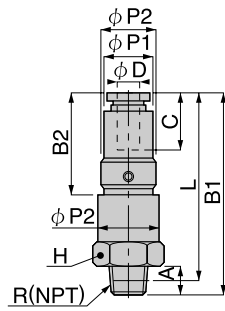
⚠ Caution

- 1.High Rotary Joint can accommodate a certain degree of radial load, but radial load may shorten its life. Therefore consult PISCO about applications involving much radial load.
- 2.Use a urethane tube where violent swinging is involved. Nylon tube or other hard tubes may increase radial load.

Allowable No. of revolutions of High Rotary Joint

Tube dia.	φ4, φ5/32	φ6, φ3/16, φ1/4	φ8, φ5/16	φ10, φ3/8	φ12, φ1/2
r.p.m	1500	1200	1200	1000	1000

RHC Straight



Unit : inch

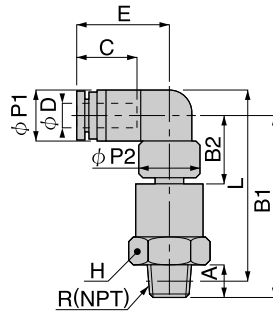
Model	Tube dia. φD(mm)	R	A	B1	B2	L	ΦP1	ΦP2	ΦP3	C	H	※1 r.p.m	※2 g-cm less than	Weight (OZ)	Orifice φMM	Eff.a. mm2	CV
RHC 4-M5	4	M5	0.14	1.69	0.91	1.55	0.43	-	0.47	0.59	0.47	1500	150	0.92	1.80	2.20	0.12
RHC 4-M6	4	M6	0.18	1.73	0.91	1.55	0.43	-	0.47	0.59	0.47	1500	150	0.95	3.00	3.00	0.16
RHC 4-01	4	R1/8	0.31	1.89	0.91	1.73	0.43	-	0.47	0.59	0.47	1500	150	1.02	3.00	3.40	0.18
RHC 6-01	6	R1/8	0.31	2.15	1.08	1.99	0.51	0.59	0.67	0.65	0.67	1200	150	1.76	4.60	12.80	0.69
RHC 6-02	6	R1/4	0.43	2.26	1.08	2.03	0.51	0.59	0.67	0.65	0.67	1200	150	2.01	4.60	12.20	0.66
RHC 8-01	8	R1/8	0.31	2.28	1.18	2.13	0.59	-	0.67	0.69	0.67	1200	150	1.94	5.00	10.70	0.58
RHC 8-02	8	R1/4	0.43	2.40	1.18	2.16	0.59	-	0.67	0.69	0.67	1200	150	2.11	5.00	11.50	0.62
RHC 10-03	10	R3/8	0.47	2.68	1.24	2.42	0.79	-	0.92	0.79	0.94	900	250	4.29	7.50	41.50	2.25
RHC 10-04	10	R1/2	0.59	2.79	1.24	2.48	0.79	-	0.92	0.79	0.94	900	250	4.86	7.50	42.90	2.33
RHC 12-03	12	R3/8	0.47	2.76	1.40	2.50	0.83	-	0.92	0.91	0.94	900	250	4.44	9.00	51.20	2.78
RHC 12-04	12	R1/2	0.59	2.89	1.40	2.58	0.83	-	0.92	0.91	0.94	900	250	5.00	9.00	49.60	2.69
RHC 1/4-01	1/4	R1/8	0.31	2.18	1.08	2.03	0.51	0.59	0.67	0.65	0.67	1200	150	1.76	4.60	13.00	0.70
RHC 1/4-02	1/4	R1/4	0.43	2.30	1.08	2.07	0.51	0.59	0.67	0.65	0.67	1200	150	2.01	4.60	12.60	0.68
RHC 5/16-01	5/16	R1/8	0.31	2.28	1.18	2.13	0.59	-	0.67	0.69	0.67	1200	150	1.94	5.00	10.70	0.58
RHC 5/16-02	5/16	R1/4	0.43	2.40	1.18	2.16	0.59	-	0.67	0.69	0.67	1200	150	2.11	5.00	11.50	0.62
RHC 3/8-03	3/8	R3/8	0.47	2.64	1.24	2.38	0.79	-	0.92	0.79	0.94	900	250	4.29	7.50	42.90	2.33
RHC 3/8-04	3/8	R1/2	0.59	2.76	1.24	2.44	0.79	-	0.92	0.79	0.94	900	250	4.86	7.50	43.90	2.38

Unit : inch

Model	Tube dia. φD	NPT	A	B1	B2	L	ΦP1	ΦP2	ΦP3	C	H	※1 r.p.m	※2 g-cm less than	Weight (OZ)	Orifice φMM	Eff.a. mm2	CV
RHC 5/32-U10U	5/32	10-32UNF	0.14	1.69	0.91	1.56	0.43	-	0.47	0.59	1/2	1500	150	0.85	1.80	2.20	0.12
RHC 5/32-N1U	5/32	1/8	0.31	1.89	0.91	1.73	0.43	-	0.47	0.59	1/2	1500	150	1.03	3.00	3.40	0.18
RHC 3/16-N1U	3/16	1/8	0.31	2.15	1.08	1.99	0.51	0.59	0.67	0.65	11/16	1200	150	1.79	5.50	6.60	0.36
RHC 3/16-N2U	3/16	1/4	0.43	2.26	1.08	2.03	0.51	0.59	0.67	0.65	11/16	1200	150	2.02	5.50	6.50	0.35
RHC 1/4-N1U	1/4	1/8	0.31	2.15	1.08	1.99	0.51	0.59	0.67	0.65	11/16	1200	150	1.77	5.50	15.40	0.83
RHC 1/4-N2U	1/4	1/4	0.43	2.26	1.08	2.03	0.51	0.59	0.67	0.65	11/16	1200	150	2.00	5.50	14.90	0.81
RHC 5/16-N1U	5/16	1/8	0.31	2.28	1.18	2.13	0.59	-	0.67	0.69	11/16	1200	150	1.99	5.50	13.60	0.74
RHC 5/16-N2U	5/16	1/4	0.43	2.40	1.18	2.17	0.59	-	0.67	0.69	11/16	1200	150	2.21	5.50	13.70	0.74
RHC 3/8-N3U	3/8	3/8	0.47	2.68	1.24	2.42	0.79	-	0.93	0.79	1	900	250	4.46	9.00	33.00	1.79
RHC 3/8-N4U	3/8	1/2	0.59	2.80	1.24	2.48	0.79	-	0.93	0.79	1	900	250	5.05	9.00	32.90	1.78
RHC 1/2-N3U	1/2	3/8	0.47	2.76	1.40	2.50	0.83	-	0.93	0.91	1	900	250	4.60	9.00	41.90	2.27
RHC 1/2-N4U	1/2	1/2	0.59	2.89	1.40	2.58	0.83	-	0.93	0.91	1	900	250	5.19	9.00	41.40	2.24

※1 Allowable revolutions ※2 Idling torque

RHL Elbow



Unit : inch

Model	Tube dia. φD(mm)	R	A	B1	B2	L	ΦP1	ΦP2	C	E	H	※1 r.p.m	※2 g-cm less than	Weight (OZ)	Orifice φMM	Eff.a. mm2	CV
RHL 4-M5	4	M5	0.14	1.38	0.51	1.24	0.39	0.45	0.59	0.77	0.47	1500	150	1.17	1.80	2.20	0.12
RHL 4-M6	4	M6	0.18	1.42	0.51	1.24	0.39	0.45	0.59	0.77	0.47	1500	150	1.22	3.00	4.50	0.24
RHL 4-01	4	R1/8	0.31	1.50	0.51	1.34	0.39	0.45	0.59	0.77	0.47	1500	150	1.44	3.00	4.10	0.22
RHL 6-01	6	R1/8	0.31	1.77	0.67	1.61	0.51	0.65	0.65	0.89	0.67	1200	150	2.55	4.60	10.00	0.54
RHL 6-02	6	R1/4	0.43	1.89	0.67	1.65	0.51	0.65	0.65	0.89	0.67	1200	150	2.82	4.60	10.50	0.57
RHL 8-01	8	R1/8	0.31	1.81	0.71	1.65	0.59	0.65	0.69	0.98	0.67	1200	150	2.66	5.00	11.50	0.62
RHL 8-02	8	R1/4	0.43	1.93	0.71	1.69	0.59	0.65	0.69	0.98	0.67	1200	150	2.98	5.00	13.00	0.70
RHL 10-03	10	R3/8	0.47	2.22	0.83	1.91	0.71	0.92	0.79	1.12	0.94	900	250	5.75	7.50	27.20	1.47
RHL 10-04	10	R1/2	0.59	2.34	0.83	2.03	0.71	0.92	0.79	1.12	0.94	900	250	6.70	7.50	27.00	1.46
RHL 12-03	12	R3/8	0.47	2.30	0.91	2.03	0.85	0.92	0.91	1.26	0.94	900	250	6.01	9.00	42.50	2.30
RHL 12-04	12	R1/2	0.59	2.42	0.91	2.09	0.85	0.92	0.91	1.26	0.94	900	250	6.92	9.00	41.60	2.25
RHL 1/4-01	1/4	R1/8	0.31	1.75	0.67	1.61	0.51	0.65	0.65	0.89	0.67	1200	150	2.55	4.60	10.50	0.57
RHL 1/4-02	1/4	R1/4	0.43	1.89	0.67	1.65	0.51	0.65	0.65	0.89	0.67	1200	150	2.82	4.60	10.80	0.59
RHL 5/16-01	5/16	R1/8	0.31	1.81	0.71	1.65	0.59	0.65	0.69	0.98	0.67	1200	150	2.66	5.00	11.50	0.62
RHL 5/16-02	5/16	R1/4	0.43	1.93	0.71	1.77	0.59	0.65	0.69	0.98	0.67	1200	150	2.98	5.00	13.00	0.70
RHL 3/8-03	3/8	R3/8	0.47	2.22	0.83	1.97	0.71	0.92	0.79	1.12	0.94	900	250	5.75	7.50	24.10	1.31
RHL 3/8-04	3/8	R1/2	0.59	2.34	0.83	2.09	0.71	0.92	0.79	1.12	0.94	900	250	6.70	7.50	25.80	1.40

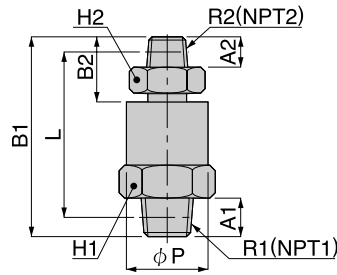
Unit : inch

Model	Tube dia. φD	NPT	A	B1	B2	L	ΦP1	ΦP2	C	E	H	※1 r.p.m	※2 g-cm less than	Weight (OZ)	Orifice φMM	Eff.a. mm2	CV
RHL 5/32-U10U	5/32	10-32UNF	0.14	1.38	0.51	1.24	0.39	0.45	0.59	0.77	1/2	1500	150	0.75	1.80	2.20	0.12
RHL 5/32-N1U	5/32	1/8	0.31	1.50	0.51	1.34	0.39	0.45	0.59	0.77	1/2	1500	150	0.93	3.00	4.10	0.22
RHL 3/16-N1U	3/16	1/8	0.31	1.77	0.67	1.61	0.51	0.65	0.65	0.89	11/16	1200	150	1.67	5.50	6.20	0.34
RHL 3/16-N2U	3/16	1/4	0.43	1.89	0.67	1.65	0.51	0.65	0.65	0.89	11/16	1200	150	1.89	5.50	6.00	0.33
RHL 1/4-N1U	1/4	1/8	0.31	1.77	0.67	1.61	0.51	0.65	0.65	0.89	11/16	1200	150	1.69	5.50	11.00	0.60
RHL 1/4-N2U	1/4	1/4	0.43	1.89	0.67	1.65	0.51	0.65	0.65	0.89	11/16	1200	150	1.89	5.50	11.10	0.60
RHL 5/16-N1U	5/16	1/8	0.31	1.81	0.71	1.65	0.59	0.65	0.69	0.98	11/16	1200	150	1.77	5.50	12.90	0.70
RHL 5/16-N2U	5/16	1/4	0.43	1.93	0.71	1.69	0.59	0.65	0.69	0.98	11/16	1200	150	2.00	5.50	13.30	0.72
RHL 3/8-N3U	3/8	3/8	0.47	2.22	0.83	1.91	0.71	0.93	0.79	1.12	1	900	250	4.01	9.00	25.70	1.39
RHL 3/8-N4U	3/8	1/2	0.59	2.34	0.83	2.03	0.71	0.93	0.79	1.12	1	900	250	4.60	9.00	26.10	1.41
RHL 1/2-N3U	1/2	3/8	0.47	2.30	0.91	2.03	0.85	0.93	0.91	1.26	1	900	250	4.19	9.00	38.90	2.11
RHL 1/2-N4U	1/2	1/2	0.59	2.42	0.91	2.09	0.85	0.93	0.91	1.26	1	900	250	4.78	9.00	39.20	2.12

※1 Allowable revolutions ※2 Idling torque

RHS

Nipple



Unit : inch

Model	R1	R2	A1	A2	B1	B2	L	φP	H1	H2	※1 r.p.m	※2 g-cm less than	Weight (OZ)	Orifice φMM	Eff.a. mm2	CV
RHS 01-01	R1/8	R1/8	0.31	0.31	1.71	0.61	1.40	0.65	0.67	0.55	1200	150	1.48	5.00	12.80	0.69
RHS 01-02	R1/8	R1/4	0.31	0.43	1.81	0.71	1.42	0.65	0.67	0.55	1200	150	1.65	5.00	12.20	0.66
RHS 02-01	R1/4	R1/8	0.43	0.31	1.83	0.61	1.44	0.65	0.67	0.55	1200	150	1.69	5.00	11.10	0.60
RHS 02-02	R1/4	R1/4	0.43	0.43	1.93	0.71	1.46	0.65	0.67	0.55	1200	150	1.87	5.00	11.40	0.62
RHS 03-03	R3/8	R3/8	0.47	0.47	2.24	0.85	1.73	0.92	0.94	0.87	900	250	3.94	9.00	48.80	2.64
RHS 03-04	R3/8	R1/2	0.47	0.59	2.36	0.96	1.79	0.92	0.94	0.87	900	250	4.54	9.00	47.90	2.60
RHS 04-03	R1/2	R3/8	0.59	0.47	2.36	0.85	1.79	0.92	0.94	0.87	900	250	4.58	9.00	50.50	2.74
RHS 04-04	R1/2	R1/2	0.59	0.59	2.48	0.96	1.85	0.92	0.94	0.87	900	250	5.17	9.00	47.00	2.55

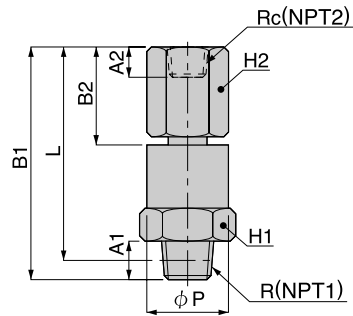
Unit : inch

Model	NPT1	NPT2	A1	A2	B1	B2	L	φP	H1	H2	※1 r.p.m	※2 g-cm less than	Weight (OZ)	Orifice φMM	Eff.a. mm2	CV
RHS N1-N1U	1/8	1/8	0.31	0.31	1.17	0.61	1.40	0.65	11/16	9/16	1200	150	1.46	5.00	12.80	0.69
RHS N1-N2U	1/8	1/4	0.31	0.43	1.81	0.71	1.42	0.65	11/16	9/16	1200	150	1.66	5.50	12.20	0.66
RHS N2-N1U	1/4	1/8	0.43	0.31	1.83	0.61	1.44	0.65	11/16	9/16	1200	150	1.69	5.50	11.10	0.60
RHS N2-N2U	1/4	1/4	0.43	0.43	1.93	0.71	1.46	0.65	11/16	9/16	1200	150	1.89	9.00	11.40	0.62
RHS N3-N3U	3/8	3/8	0.47	0.47	2.24	0.85	1.73	0.93	1	9/16	900	250	4.09	9.00	48.80	2.64
RHS N3-N4U	3/8	1/2	0.47	0.59	2.36	0.96	1.79	0.93	1	7/8	900	250	3.98	9.00	47.90	2.60
RHS N4-N3U	1/2	3/8	0.59	0.47	2.36	0.85	1.79	0.93	1	7/8	900	250	4.68	9.00	50.50	2.74
RHS N4-N4U	1/2	1/2	0.59	0.59	2.48	0.96	1.85	0.93	1	7/8	900	250	5.28	9.00	47.00	2.55

※ Allowable revolutions ※ Idling torque

RHF

Bush



Unit : inch

Model	R	RC	A1	B1	B2	L	φP	H1	H2	※1 r.p.m	※2 g-cm less than	Weight (OZ)	Orifice φMM	Eff.a. mm2	CV
RHF 01-01	R1/8	R1/8	0.31	1.85	0.75	1.69	0.65	0.67	0.55	1200	150	1.80	5.00	13.90	0.75
RHF 01-02	R1/8	R1/4	0.31	2.01	0.91	1.85	0.65	0.67	0.67	1200	150	2.18	5.00	11.00	0.60
RHF 02-01	R1/4	R1/8	0.43	1.97	0.75	1.81	0.65	0.67	0.55	1200	150	1.97	5.00	14.80	0.80
RHF 02-02	R1/4	R1/4	0.43	2.13	0.91	1.97	0.65	0.67	0.67	1200	150	2.39	5.00	11.20	0.61
RHF 03-03	R3/8	R3/8	0.47	2.44	1.04	2.18	0.92	0.94	0.87	900	250	4.72	9.00	47.20	2.56
RHF 03-04	R3/8	R1/2	0.47	2.52	1.10	2.24	0.92	0.94	0.94	900	250	4.93	9.00	53.10	2.88
RHF 04-03	R1/2	R3/8	0.59	2.56	1.04	2.24	0.92	0.94	0.87	900	250	5.28	9.00	47.50	2.57
RHF 04-04	R1/2	R1/2	0.59	2.64	1.10	2.30	0.92	0.94	0.94	900	250	5.63	9.00	50.20	2.72

Unit : inch

Model	NPT1	NPT2	A1	A2	B1	B2	L	φP	H1	H2	※1 r.p.m	※2 g-cm less than	Weight (OZ)	Orifice φMM	Eff.a. mm2	CV
RHF N1-N1U	1/8	1/8	0.31	0.31	1.85	0.75	1.69	0.65	11/16	9/16	1200	150	1.76	5.00	13.90	0.75
RHF N1-N2U	1/8	1/4	0.31	0.43	2.01	0.91	1.85	0.65	11/16	11/16	1200	150	2.24	5.50	11.00	0.60
RHF N2-N1U	1/4	1/8	0.43	0.31	1.97	0.75	1.81	0.65	11/16	9/16	1200	150	1.96	5.50	14.80	0.80
RHF N2-N2U	1/4	1/4	0.43	0.43	2.13	0.91	1.97	0.65	11/16	11/16	1200	150	2.46	5.50	11.20	0.61
RHF N3-N3U	3/8	3/8	0.47	0.47	2.44	1.04	2.19	0.93	1	7/8	900	250	4.83	9.00	47.20	2.56
RHF N3-N4U	3/8	1/2	0.47	0.59	2.52	1.10	2.24	0.93	1	1	900	250	5.54	9.00	53.10	2.88
RHF N4-N3U	1/2	3/8	0.59	0.47	2.56	1.04	2.24	0.93	1	7/8	900	250	5.42	9.00	47.50	2.57
RHF N4-N4U	1/2	1/2	0.59	0.59	2.64	1.10	2.30	0.93	1	1	900	250	6.13	9.00	50.20	2.72

※ Allowable revolutions ※ Idling torque