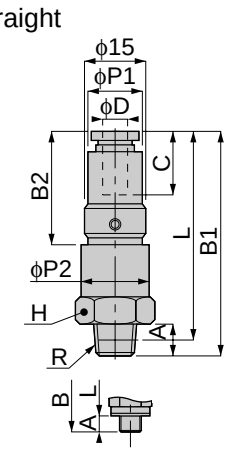
Tube Fitting Series High Rotary Joint

RHC

Straight



Metric thread type

unit:mm

Model	Tube dia. ϕD	R	A	B1	B2	L	ϕP1	ϕP2	C	H	Mass (g)	※1 (r.p.m)	※2 (2g-cm less than)	Orifice (ϕmm)	Eff. a. (mm²)
RHC 4-M5	4	M5×0.8	3	43	23	40	11	12	15	12	26	1500	150	1.8	2.2
RHC 4-M6		M6×1	4	44							27			3	3
RHC 4-01		R1/8	8	48		44					29				3.4
RHC 6-01	6	R1/8	8	54.5	27.5	50.5	13	17	16.5	17	50	1200	150	4.6	12.8
RHC 6-02		R1/4	11	57.5		51.5					57				12.2
RHC 8-01	8	R1/8	8	58	30	54	15	17	17.5	17	55	1200	150	5	10.7
RHC 8-02		R1/4	11	61		55					60				11.5
RHC 10-03	10	R3/8	12	68	31.5	61.5	20	23.5	20	24	122	900	250	7.5	41.5
RHC 10-04		R1/2	15	71		63					138				42.9
RHC 12-03	12	R3/8	12	70	35.5	63.5	21	23.5	23	24	126	900	250	9	51.2
RHC 12-04		R1/2	15	73.5		65.5					142				49.6
RHC 1/4-01	1/4	R1/8	8	55.5	27.5	51.5	13	17	16.5	17	50	1200	150	4.6	13
RHC 1/4-02		R1/4	11	58.5		52.5					57				12.6
RHC 5/16-01	5/16	R1/8	8	58	30	54	15	17	17.5	17	55	1200	150	5	10.7
RHC 5/16-02		R1/4	11	61		55					60				11.5
RHC 3/8-03	3/8	R3/8	12	67	31.5	60.5	20	23.5	20	24	122	900	250	7.5	42.9
RHC 3/8-04		R1/2	15	70		62					138				43.9

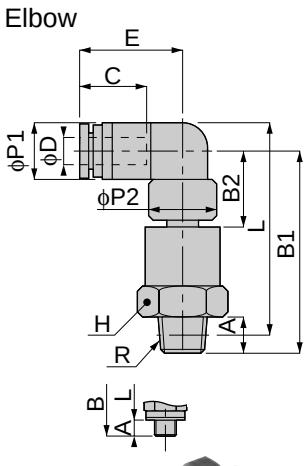
※ ϕ15 in the left diagram is only for RHC 6-□□ and 1/4-□□.
※1 Allowable revolutions
※2 Idling torque

unit:inch

MODEL	Tube dia. ϕ D	NPT	A	B1	B2	L	ϕ P1	ϕ P2	ϕ P3	C	H	Allowable Revolutions	Idling torque under g · cm	Weight (g)	Orifice ϕ inch	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	24.2	0.07	2.2	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	29.2	0.12	3.4	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	50.9	0.22	6.6	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	57.4	0.22	6.5	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	50.3	0.22	15.4	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	56.8	0.22	14.9	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	56.5	0.22	13.6	0.74
RHC 5/16-N2U	5/16	1/4	0.43	2.4	1.18	2.17	0.59	-	0.67	0.69	11/16	1200	150	62.9	0.22	13.7	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	126.6	0.35	33.0	1.79
RHC 3/8-N4U	3/8	1/2	0.59	2.8	1.24	2.48	0.79	-	0.93	0.79	1	900	250	143.4	0.35	32.9	1.78
RHC 1/2-N3U	1/2	3/8	0.47	2.76	1.4	2.5	0.83	-	0.93	0.91	1	900	250	130.6	0.35	41.9	2.27
RHC 1/2-N4U	1/2	1/2	0.59	2.89	1.4	2.58	0.83	-	0.93	0.91	1	900	250	147.4	0.35	41.4	2.24

RHL

Elbow



Metric thre

unit:mm

Model	Tube dia. ϕD	R	A	B1	B2	L	ϕP1	ϕP2	C	E	H	Mass (g)	※1 (r.p.m)	※2 (2g-cm less than)	Orifice (ϕmm)	Eff. a. (mm²)
RHL 4-M5	4	M5×0.8	3	35	13	37	10	11.5	15	19.5	12	22	1500	150	1.8	2.2
RHL 4-M6		M6×1	4	36								23			3	4.5
RHL 4-01		R1/8	8	38		39						27				4.1
RHL 6-01	6	R1/8	8	45	17	47.5	13	16.5	16.5	22.5	17	48	1200	150	4.6	10
RHL 6-02		R1/4	11	48		48.5						53				10.5
RHL 8-01	8	R1/8	8	46	18	49.5	15	16.5	17.5	25	17	50	1200	150	5	11.5
RHL 8-02		R1/4	11	49		52.5						56				13
RHL 10-03	10	R3/8	12	56.5	21	57.5	18	23.5	20	28.5	24	108	900	250	7.5	27.2
RHL 10-04		R1/2	15	59.5		60.5						126				27
RHL 12-03	12	R3/8	12	58.5	23	62	21.5	23.5	23	32	24	113	900	250	9	42.5
RHL 12-04		R1/2	15	61.5		63.5						130				41.6
RHL 1/4-01	1/4	R1/8	8	44.5	17	47.5	13	16.5	16.5	22.5	17	48	1200	150	4.6	10.5
RHL 1/4-02		R1/4	11	48		48.5						53				10.8
RHL 5/16-01	5/16	R1/8	8	46	18	49.5	15	16.5	17.5	25	17	50	1200	150	5	11.5
RHL 5/16-02		R1/4	11	49		52.5						56				13
RHL 3/8-03	3/8	R3/8	12	56.5	21	59	18	23.5	20	28.5	24	108	900	250	7.5	24.1
RHL 3/8-04		R1/2	15	59.5		62						126				25.8

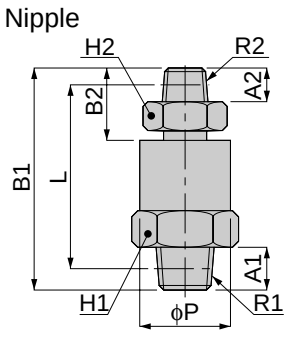
※1 Allowable revolutions
※2 Idling torque

unit:inch

MODEL	Tube dia. ϕ D	NPT	A	B1	B2	L	ϕ P1	ϕ P2	C	E	H	Allowable Revolutions	Idling torque under g · cm	Weight (g)	Orifice ϕ inch	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	21.4	0.07	2.2	0.12
RHL 5/32-N1U	5/32	1/8	0.31	1.5	0.51	1.34	0.39	0.45	0.59	0.77	1/2	1500	150	26.4	0.12	4.1	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	47.4	0.22	6.2	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	53.8	0.22	6.0	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	47.9	0.22	11.0	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	53.6	0.22	11.1	0.60
RHL 5/16-N1U	5/16	1/8	0.31	1.81	0.71	1.65	0.59	0.65	0.69	0.89	11/16	1200	150	50.3	0.22	12.9	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	56.8	0.22	13.3	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	113.9	0.35	25.7	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	130.6	0.35	26.1	1.41
RHL 1/2-N3U	1/2	3/8	0.47	2.3	0.91	2.03	0.85	0.93	0.91	1.26	1	900	250	118.9	0.35	38.9	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	135.8	0.35	39.2	2.12

RHS

Nipple



unit:mm

Model	R1	R2	A1	A2	B1	B2	L	ϕP	H1	H2	Mass (g)	※1 (r.p.m)	※2 (2g-cm less than)	Orifice (ϕmm)	Eff. a. (mm²)
RHS 01-01	R1/8	R1/8	8	8	43.5	15.5	35.5	16.5	17	14	42	1200	150	5	12.8
RHS 01-02		R1/4		11	46	18	36				47				12.2
RHS 02-01	R1/4	R1/8	11	8	46.5	15.5	36.5	16.5	17	14	48	1200	150	5	11.1
RHS 02-02		R1/4		11	49	18	37				53				11.4
RHS 03-03	R3/8	R3/8	12	12	57	21.5	44	23.5	24	22	112	900	250	9	48.8
RHS 03-04		R1/2		15	60	24.5	45.5				129				47.9
RHS 04-03	R1/2	R3/8	15	12	60	21.5	45.5	23.5	24	22	130	900	250	9	50.5
RHS 04-04		R1/2		15	63	24.5	47				147				47

※1 Allowable revolutions
※2 Idling torque

unit:inch

MODEL	NPT1	NPT2	A1	A2	B1	B2	L	ϕ P	H1	H2	Allowable Revolutions	Idling torque under g · cm	Weight (g)	Orifice ϕ inch	Eff.a. mm²	Cv
RHS N1-N1U	1/8	1/8	0.31	0.31	1.17	0.61	1.4	0.65	11/16	9/16	1200	150	41.5	0.20	12.8	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	47.3	0.22	12.2	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	47.9	0.22	11.1	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	53.7	0.35	11.4	0.62
RHS N3-N3U	3/8	3/8	0.47	0.47	2.24	0.85	1.73	0.93	1	7/8	900	250	116.2	0.35	48.8	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	113.2	0.35	47.9	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	132.9	0.35	50.5	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	149.9	0.35	47.0	2.55