

WedgeRock RTC PRODUCT SHEET

THERMALLY COMPENSATED THRUST BASES



Features, Options & Configurability

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| <ul style="list-style-type: none"> • 90% filled, Greased for life, no maintenance • Elastomer seals at all ingress points, designed to IP68 • Available Certifications: <ul style="list-style-type: none"> ○ Buy America Compliant | <ul style="list-style-type: none"> • Temperature range and materials configured per application • Machined for direct mount <ul style="list-style-type: none"> ○ Standard Flanges to MSS SP101/MSS SP102 & ISO 5211/ISO 5210 ○ Infinite Custom Bolt Pattern Options |
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PURPOSE ENGINEERED - QUALITY MANUFACTURED - PERFORMANCE TESTED

The information in this document is subject to change without notice. Updated documents can be requested or obtained from our website.

WedgeRock RT(C) SERIES

GENERAL OVERVIEW

THERMALLY COMPENSATED THRUST BASE				
MODEL	THRUST RATING	MAX TORQUE RATING	MAX STEM THREAD DIAMETER	STANDARD FLANGE
	<i>LBS (KN)</i>	<i>IN-LBS (NM)</i>	<i>IN (MM)</i>	<i>IN / OUT</i>
RTC0	25,000 (111)	13,367 (1,510)	2.50 (63.5)	F-FA25
RTC1	50,000 (222)	36,328 (4,105)	2.50 (63.5)	F-FA35
RTC2	100,000 (445)	80,977 (9,149)	3.50 (88.9)	F-FA40
RTC4	200,000 (890)	199,065 (22,491)	4.50 (114.3)	F-FA48
RTC5	250,000 (1,112)	320,613 (36,224)	5.50 (139.7)	F-FA48
RTC8	400,000 (1,779)	483,420 (54,619)	6.00 (152.4)	F-FA60
RTC16	800,000 (3,559)	956,817 (108,106)	8.00 (203.2)	AS REQUIRED

WedgeRock RTC SERIES

STEM GROWTH TABLES

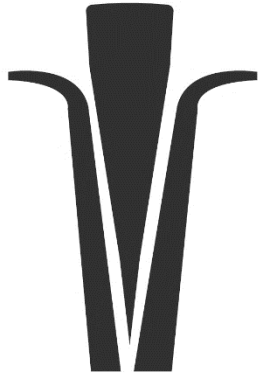
STEM GROWTH DUE TO TEMPERATURE DIFFERENTIAL PER STEM LENGTH (IN)

		TEMPERATURE DIFFERENTIAL (°F)									
		100	200	300	400	500	600	700	800	900	1000
STEM LENGTH (IN)	1	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
	5	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05
	10	0.01	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.09
	15	0.01	0.03	0.04	0.05	0.07	0.08	0.09	0.11	0.12	0.14
	20	0.02	0.04	0.05	0.07	0.09	0.11	0.13	0.14	0.16	0.18
	25	0.02	0.05	0.07	0.09	0.11	0.14	0.16	0.18	0.20	0.23
	30	0.03	0.05	0.08	0.11	0.14	0.16	0.19	0.22	0.24	0.27
	35	0.03	0.06	0.09	0.13	0.16	0.19	0.22	0.25	0.28	0.32
	40	0.04	0.07	0.11	0.14	0.18	0.22	0.25	0.29	0.32	0.36
	45	0.04	0.08	0.12	0.16	0.20	0.24	0.28	0.32	0.36	0.41
	50	0.05	0.09	0.14	0.18	0.23	0.27	0.32	0.36	0.41	0.45
	55	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50
	60	0.05	0.11	0.16	0.22	0.27	0.32	0.38	0.43	0.49	0.54
	65	0.06	0.12	0.18	0.23	0.29	0.35	0.41	0.47	0.53	0.59
	70	0.06	0.13	0.19	0.25	0.32	0.38	0.44	0.50	0.57	0.63
	75	0.07	0.14	0.20	0.27	0.34	0.41	0.47	0.54	0.61	0.68
	80	0.07	0.14	0.22	0.29	0.36	0.43	0.50	0.58	0.65	0.72
	85	0.08	0.15	0.23	0.31	0.38	0.46	0.54	0.61	0.69	0.77
	90	0.08	0.16	0.24	0.32	0.41	0.49	0.57	0.65	0.73	0.81
	95	0.09	0.17	0.26	0.34	0.43	0.51	0.60	0.68	0.77	0.86
100	0.09	0.18	0.27	0.36	0.45	0.54	0.63	0.72	0.81	0.90	

STEM GROWTH DUE TO TEMPERATURE DIFFERENTIAL PER STEM LENGTH (MM)

		TEMPERATURE DIFFERENTIAL (°C)									
		38	93	149	204	260	316	371	427	482	538
STEM LENGTH (MM)	25	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
	127	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.9	1.0	1.1
	254	0.2	0.5	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3
	381	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.7	3.1	3.4
	508	0.5	0.9	1.4	1.8	2.3	2.7	3.2	3.7	4.1	4.6
	635	0.6	1.1	1.7	2.3	2.9	3.4	4.0	4.6	5.1	5.7
	762	0.7	1.4	2.1	2.7	3.4	4.1	4.8	5.5	6.2	6.9
	889	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8.0
	1016	0.9	1.8	2.7	3.7	4.6	5.5	6.4	7.3	8.2	9.1
	1143	1.0	2.1	3.1	4.1	5.1	6.2	7.2	8.2	9.3	10.3
	1270	1.1	2.3	3.4	4.6	5.7	6.9	8.0	9.1	10.3	11.4
	1397	1.3	2.5	3.8	5.0	6.3	7.5	8.8	10.1	11.3	12.6
	1524	1.4	2.7	4.1	5.5	6.9	8.2	9.6	11.0	12.3	13.7
	1651	1.5	3.0	4.5	5.9	7.4	8.9	10.4	11.9	13.4	14.9
	1778	1.6	3.2	4.8	6.4	8.0	9.6	11.2	12.8	14.4	16.0
	1905	1.7	3.4	5.1	6.9	8.6	10.3	12.0	13.7	15.4	17.1
	2032	1.8	3.7	5.5	7.3	9.1	11.0	12.8	14.6	16.5	18.3
	2159	1.9	3.9	5.8	7.8	9.7	11.7	13.6	15.5	17.5	19.4
	2286	2.1	4.1	6.2	8.2	10.3	12.3	14.4	16.5	18.5	20.6
	2413	2.2	4.3	6.5	8.7	10.9	13.0	15.2	17.4	19.5	21.7
2540	2.3	4.6	6.9	9.1	11.4	13.7	16.0	18.3	20.6	22.9	

ABOUT WEDGEROCK



The WedgeRock name and logo symbolize the elegance of a simple and effective design and the grit, focus, and determination required to make things happen – the work required to get big things moving. Pragmatism and hard work are central to our culture and reflected in everything we do.

Don't let our dirty hands and old school approach fool you. WedgeRock brings industry leading innovation to your engineered projects in standard lead times.

With a focused approach, WedgeRock provides solutions for the most demanding torque and thrust application. Whether you need to operate valves thousands of meters below the ocean surface, or a purpose designed gear operator for your valve line, give us a call or send an email to get the partnership started.

OUR MISSION

WedgeRock provides performance engineered actuation solutions for demanding applications.

