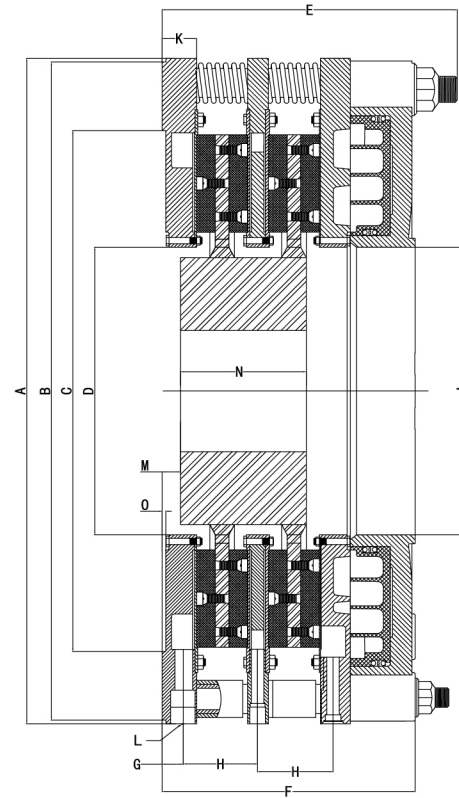
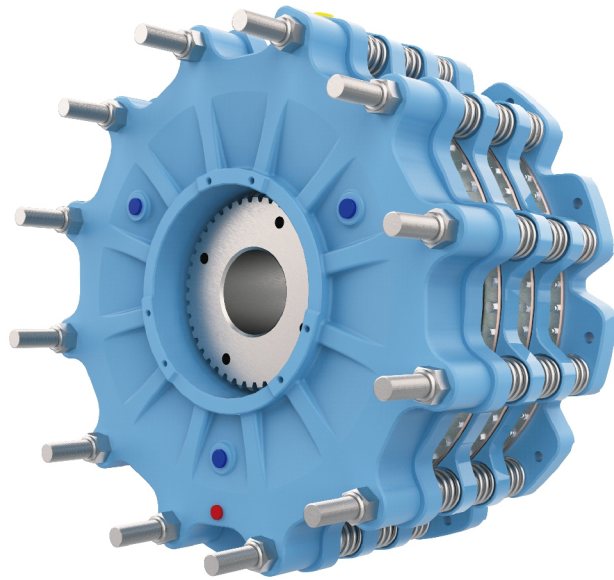


# Water Cooled Brake



## Technical Parameter

Size	Torque Ratings @100psi ( lb - in ) / 7bar ( N · m )						Air Volume / Engagement				Max Slip Speed rpm	Max Dis-engaged Speed rpm	WEIGHT AND INERTIA				
	Standard Friction Material		High Coeff Friction Material		Heat Dissipation Capacity		Water Flow ( Minimum )		New				Worn		Total Weight	Hub & DP Weight	Hub & DP Inertia
	lb-in	Nm	lb-in	Nm	Hp	Kw	gpm	L/min	in <sup>3</sup>	L			in <sup>3</sup>	L	lb ( Kg )	lb ( Kg )	lbf <sup>2</sup> ( wr <sup>2</sup> ) ( kgm <sup>2</sup> ( J ) )
118	44900	5150	67100	7700	120	89.5	12	45.4	59	1.0	122	2.0	850	1560	331(150)	86(39)	18.8(0.79)
218	89800	10310	134200	15400	240	179.0	24	90.8	69	1.1	122	2.0	850	1560	460(209)	172(78)	38.1(1.61)
318	134700	15460	201300	23100	360	268.5	36	136.3	78	1.3	122	2.0	850	1560	848(385)	272(123)	57.4(2.42)
418	179600	20620	268400	30810	480	357.9	48	181.7	88	1.4	122	2.0	850	1560	1236(561)	372(169)	78.1(3.29)
124	111600	12800	166700	19130	270	201.3	27	102.2	170	2.8	299	4.9	640	1170	810(367)	196(89)	71.9(3.03)
224	223200	25600	333400	38260	540	402.7	54	204.4	190	3.1	299	4.9	640	1170	1208(548)	428(194)	148(6.21)
324	334800	38400	500100	57380	810	604.0	81	306.6	209	3.4	299	4.9	640	1170	1624(737)	631(286)	219(9.21)
424	446400	51200	666700	76510	1080	805.4	108	408.8	228	3.7	299	4.9	640	1170	1950(884)	850(386)	294(12.4)
136	375500	43080	561200	64380	650	484.7	65	246.1	271	4.4	661	10.8	425	775	2687(1219)	474(215)	374(15.8)
236	751000	86160	1122400	128750	1300	969.4	130	492.1	313	5.1	661	10.8	425	775	3919(1777)	908(412)	704(29.7)
336	1126500	129250	1683600	193130	1950	1454	195	738.2	355	5.8	661	10.8	425	775	5400(2449)	1345(610)	1107(46.6)
436	1502000	172330	2244800	257500	2600	1939	260	984.2	396	6.5	661	10.8	425	775	6501(2948)	1997(906)	1524(64.2)

Torque rating is dependent on air pressure applied. Brake torque is directly proportional to the air pressure applied. Maximum allowable air pressure is 130 psi ( 9bar )

## Dimensions Data

SIZE	A	B +0.00 / -0.03 ( +.00 / -.08 )	C +0.03 / -0.00 ( +.08 / -.00 )	D	E	F	G	H	J	K	L COOLANT INLETS / OUTLETS		M	N	O	P AIR INLETS			Q	R			S MOUNTING HOLES		BORE RANGE		
											QTY	SIZE ( NPT )				QTY	TAP SIZE	HOLE CENTER		QTY	SIZE	BOLT CIRCLE	QTY <sup>2</sup>	SIZE	BOLT CIRCLE	MIN	MAX <sup>3</sup>
118	23 5/8 (600.1)	23.250(590.55)	18.250(463.55)	11 (279.4)	9 47/64(247.3)	7 1/4 (184.2)	7/8 (22.2)	3 7/32 (81.8)	8 1/2 (215.9)	1 1/2 (38.1)	4	1/2-14	1 1/4 (31.8)	2 13/16(71.4)	1/4 (6.4)	2	1/2-14	14.188(360.36)	25°	3	3/8-16	9.125(231.78)	10	21/32 (16.7)	22.000(558.8)	2 1/4 (57.2)	5 11/32(135.7)
218	23 5/8 (600.1)	23.250(590.55)	18.250(463.55)	11 (279.4)	13 5/32(334.2)	10 19/32(269.1)	7/8 (22.2)	3 7/32 (81.8)	8 1/2 (215.9)	1 1/2 (38.1)	8	1/2-14	1 1/4 (31.8)	5 5/8 (142.9)	1/4 (6.4)	2	1/2-14	14.188(360.36)	25°	3	3/8-16	9.125(231.78)	10	21/32 (16.7)	22.000(558.8)	2 1/4 (57.2)	5 11/32(135.7)
318	23 5/8 (600.1)	23.250(590.55)	18.250(463.55)	11 (279.4)	17 1/4 (438.2)	13 15/16(354.0)	7/8 (22.2)	3 7/32 (81.8)	8 1/2 (215.9)	1 1/2 (38.1)	12	1/2-14	1 1/4 (31.8)	9 5/8 (244.5)	1/4 (6.4)	2	1/2-14	14.188(360.36)	25°	3	3/8-16	9.125(231.78)	10	21/32 (16.7)	22.000(558.8)	2 1/4 (57.2)	5 11/32(135.7)
418	23 5/8 (600.1)	23.250(590.55)	18.250(463.55)	11 (279.4)	21 1/2 (546.1)	17 9/32(438.9)	7/8 (22.2)	3 7/32 (81.8)	8 1/2 (215.9)	1 1/2 (38.1)	16	1/2-14	1 1/4 (31.8)	12 1/2 (317.5)	1/4 (6.4)	2	1/2-14	14.188(360.36)	25°	3	3/8-16	9.125(231.78)	10	21/32 (16.7)	22.000(558.8)	2 1/4 (57.2)	5 11/32(135.7)
124	30 5/8 (777.9)	29.998(761.95)	24.375(619.13)	12 3/4 (323.9)	11 (279.4)	9 17/64(235.3)	1 1/16(27.0)	4 1/8 (104.8)	11 1/2 (292.1)	1 3/4 (44.5)	4	3/4-14	1 3/8 (34.9)	3 1/2 (88.9)	1/4 (6.4)	2	1/2-14	18.500(469.90)	24°	6	3/8-16	12.250(311.15)	10	21/32 (16.7)	28.750(730.25)	2 3/4 (69.9)	7 (177.8)
224	30 5/8 (777.9)	29.998(761.95)	24.375(619.13)	12 3/4 (323.9)	15 1/2 (393.7)	13 5/16(338.1)	1 1/16(27.0)	4 1/8 (104.8)	11 1/2 (292.1)	1 3/4 (44.5)	8	3/4-14	1 3/8 (34.9)	8 5/8 (219.1)	1/4 (6.4)	2	1/2-14	18.500(469.90)	24°	6	3/8-16	12.250(311.15)	10	21/32 (16.7)	28.750(730.25)	2 3/4 (69.9)	7 (177.8)
324	30 5/8 (777.9)	29.998(761.95)	24.375(619.13)	12 3/4 (323.9)	24 (609.6)	17 11/32(440.5)	1 1/16(27.0)	4 1/8 (104.8)	11 1/2 (292.1)	1 3/4 (44.5)	12	3/4-14	1 3/8 (34.9)	13 3/16(335.0)	1/4 (6.4)	2	1/2-14	18.500(469.90)	24°	6	3/8-16	12.250(311.15)	10	21/32 (16.7)	28.750(730.25)	2 3/4 (69.9)	7 (177.8)
424	30 5/8 (777.9)	29.998(761.95)	24.375(619.13)	12 3/4 (323.9)	30 1/2 (774.7)	21 7/16(544.5)	1 1/16(27.0)	4 1/8 (104.8)	11 1/2 (292.1)	1 3/4 (44.5)	16	3/4-14	1 3/8 (34.9)	16 15/16(430.2)	1/4 (6.4)	2	1/2-14	18.500(469.90)	24°	6	3/8-16	12.250(311.15)	10	21/32 (16.7)	28.750(730.25)	2 3/4 (69.9)	7 (177.8)
136	44 55/64(1139.4)	44.498 <sup>1</sup> (1130.25) <sup>1</sup>	18.375(466.73)	16 1/2 (419.1)	17 (431.8)	12 1/16(306.4)	1 17/32(38.9)	4 31/32(126.2)	16 1/2 (419.1)	2 19/32(65.9)	4	1-1/4-11 1/2	2 3/8 (60.3)	5 (127.0)	9/32(7.1)	3	1/2-14	28.000(711.20)	18.75°	6	1/2-13	17.500(444.50)	14	1 1/16 (27.0)	42.000(1066.80)	4 (101.6)	10 1/8(257.2)
236	44 55/64(1139.4)	44.498 <sup>1</sup> (1130.25) <sup>1</sup>	18.375(466.73)	16 1/2 (419.1)	20 3/4 (527.1)	17 1/32(432.6)	1 17/32(38.9)	4 31/32(126.2)	16 1/2 (419.1)	2 19/32(65.9)	8	1-1/4-11 1/2	2 3/8 (60.3)	9 (228.6)	9/32(7.1)	3	1/2-14	28.000(711.20)	18.75°	6	1/2-13	17.500(444.50)	14	1 1/16 (27.0)	42.000(1066.80)	4 (101.6)	10 1/8(257.2)
336	44 55/64(1139.4)	44.498 <sup>1</sup> (1130.25) <sup>1</sup>	18.375(466.73)	16 1/2 (419.1)	27 1/2 (698.5)	22 (558.8)	1 17/32(38.9)	4 31/32(126.2)	16 1/2 (419.1)	2 19/32(65.9)	12	1-1/4-11 1/2	2 3/8 (60.3)	13 (330.2)	9/32(7.1)	3	1/2-14	28.000(711.20)	18.75°	6	1/2-13	17.500(444.50)	14	1 1/16 (27.0)	42.000(1066.80)	4 (101.6)	10 1/8(257.2)
436	44 55/64(1139.4)	44.498 <sup>1</sup> (1130.25) <sup>1</sup>	18.375(466.73)	16 1/2 (419.1)	35 (889.0)	26 31/32(685.0)	1 17/32(38.9)	4 31/32(126.2)	16 1/2 (419.1)	2 19/32(65.9)	16	1-1/4-11 1/2	2 3/8 (60.3)	18 (457.2)	9/32(7.1)	3	1/2-14	28.000(711.20)	18.75°	6	1/2-13	17.500(444.50)	14	1 1/16 (27.0)	42.000(1066.80)	4 (101.6)	10 1/8(257.2)

NOTES: 1. 36" brakes: +0.000/-0.005 (+0.00/-0.13)  
 2. 18" and 24" brakes have (10) mounting holes based on a (12) hole pattern,  
 36" brakes have (14) mounting holes based on a (16) hole pattern, (2) holes omitted for coolant inlets/outlets  
 3. Maximum bores shown are with a standard square key. Contact RUBFLEX Engineering for bore sizes exceeding those shown.